TEST REPORT NO: RU1099/5314

COPY NO: 2

ISSUE NO: 1

FCC ID: NEO55-1248Series

REPORT ON THE CERTIFICATION TESTING OF A
Aerial Facilities Limited
Cell Enhancer
WITH RESPECT TO
THE FCC RULES CFR 47, PART 90 Subpart I
PRIVATE LAND MOBILE REPEATER

TEST DATE: 5th – 24th February 2004

TESTED BY: JOHN CHARTERS Digitally signed by JOHN CHARTERS DN: cn=JOHN CHARTERS, o=TRL COMPLIANCE SERVICES, c=US Date: 2004.03.31 11:30:07 +01'00' J CHARTERS

APPROVED BY: Peter Green Digitally signed by Peter Green DN: cn=Peter Green, o=TRL Compliance Services, c=GB Date: 2004.03.31 15:14:18 +01'00' P GREEN
PRODUCT MANAGER
EMC

DATE: 3rd March 2003

Distribution:

Copy Nos:
1. Aerial Facilities Limited
2. TCB: TRL Compliance Services Limited
3. TRL EMC

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FS 21805

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Notes:

1. Component failure during test — YES [ ] NO [X]
2. If Yes, details of failure:
3. The facilities used for the testing of the product contain in this report are FCC Listed.

CERTIFICATE OF CONFORMITY & COMPLIANCE

FCC IDENTITY:	NEO55-1248Series
PURPOSE OF TEST:	CERTIFICATION
TEST SPECIFICATION:	FCC RULES CFR 47, Part 90 Subpart I
TEST RESULT:	Compliant to Specification
EQUIPMENT UNDER TEST:	Cell Enhancer
EQUIPMENT TYPE:	Private Land Mobile Repeater
MAXIMIUM GAIN	+92.3 dBm (up link)
MAXIMUM INPUT	-55.4 dBm (down link)
MAXIMUM OUTPUT	+30.0 dBm
ANTENNA TYPE:	Not applicable
CHANNEL SPACING:	Not Applicable
NUMBER OF CHANNELS:	Channel No. Uplink 380 – 395 MHz Downlink 390 – 395 MHz
FREQUENCY GENERATION:	N/A
MODULATION TYPE:	F3E
POWER SOURCE(s):	+24Vdc
TEST DATE(s):	5th – 24th February 2004
ORDER No(s):	23174
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Latimer Park, Latimer Chesham Buckinghamshire HP5 1TU United Kingdom
TESTED BY:	JOHN CHARTERS J CHARTERS
APPROVED BY:	Peter Green P GREEN PRODUCT MANAGER EMC

APPLICANT'S SUMMARY

EQUIPMENT UNDER TEST (EUT):	Cell Enhancer
EQUIPMENT TYPE:	60-055903
PURPOSE OF TEST:	CERTIFICATION
TEST SPECIFICATION(s):	FCC RULES CFR 47, Part 90 Subpart I
TEST RESULT:	COMPLIANT Yes [X] No [ ]
APPLICANT'S CATEGORY:	MANUFACTURER [X] IMPORTER [ ] DISTRIBUTOR [ ] TEST HOUSE [ ] AGENT [ ]
APPLICANT'S ORDER No(s):	23174
APPLICANT'S CONTACT PERSON(s):	Mr Peter Bradfield
E-mail address:	Peterb@aerial.co.uk
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Latimer Park, Latimer Chesham Buckinghamshire HP5 1TU United Kingdom
TEL:	+44 (0)1494777000
FAX:	+44 (0)1494777002
MANUFACTURER:	Aerial Facilities Limited
EUT(s) COUNTRY OF ORIGIN:	United Kingdom
TEST LABORATORY:	TRL EMC
UKAS ACCREDITATION No:	0728
TEST DATE(s)	5th – 24th February
TEST REPORT No:	RU1099/5314

EQUIPMENT TEST / EXAMINATIONS REQUIRED

1.

TEST/EXAMINATION	RULE PART	APPLICABILITY	RESULT
RF Power Output	90.205	Yes	Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A
Occupied Bandwidth	90.210	Yes	Complies
Spurious Emissions at Antenna Terminals	90.210	Yes	Complies
Field Strength of Spurious Emissions	90.210	Yes	Complies
Frequency Stability	90.213	N/A(note 1)	N/A
Transient behaviour	90.214	N/A(note 2)	N/A

Notes:
1 The EUT does not contain modulation circuitry, therefore the test was not performed.
2 The EUT is not a keyed carrier system, therefore the test was not performed.

2. Product Use: Private Land Mobile Repeater

3. Emission Designator: F3E

4. Temperatures: Ambient (Tnom) 21°C

5. Supply Voltages: Vnom +24 Vdc

Note: Vnom voltages are as stated above unless otherwise shown on the test report page

6. Equipment Category:
   Single channel [ ]
   Two channel [ ]
   Multi-channel [X]

7. Channel spacing:
   Narrowband [ ]
   Wideband [X]

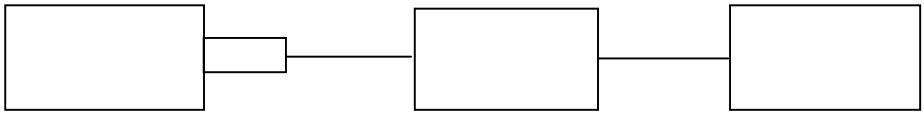
8. Test Location TRL Compliance Services
   Up Holland [X]
   Long Green [ ]

9. Modifications made during test program No modifications were performed.

COMPLIANCE TESTS

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – UPLINK

Ambient temperature	=	21°C	Radio Laboratory
Relative humidity	=	53%	
Supply voltage	=	+24 Vdc	
Channel number	=	See test results	



Spectrum Analyser TRL479

Attenuator TRL103
TRL112
Cable TRL279

EUT

Signal Generator TRL179

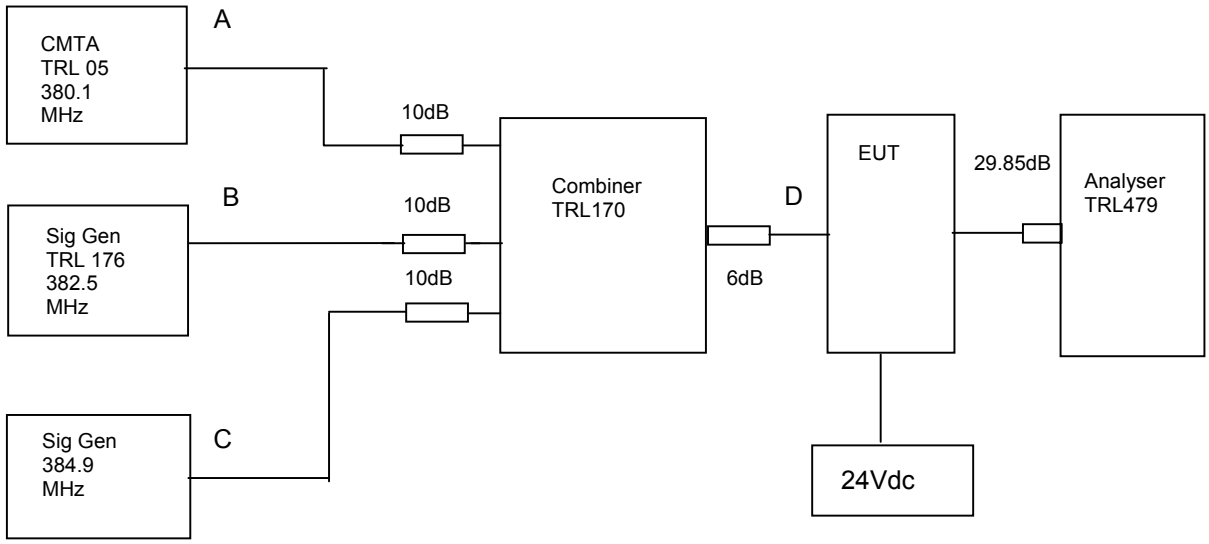
Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
380.1	-61.9	29.85	0.36	92.11	92.11
382.5	-62.6	29.85	-0.08	92.39	92.39
384.9	-61.4	29.85	-0.052	91.198	91.198

Notes:
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator output was increased by 20dBs and the level of the output signal remeasured

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8308-200	N/A	103	**X**
ATTENUATOR	BIRD	8308-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

AMPIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– UPLINK

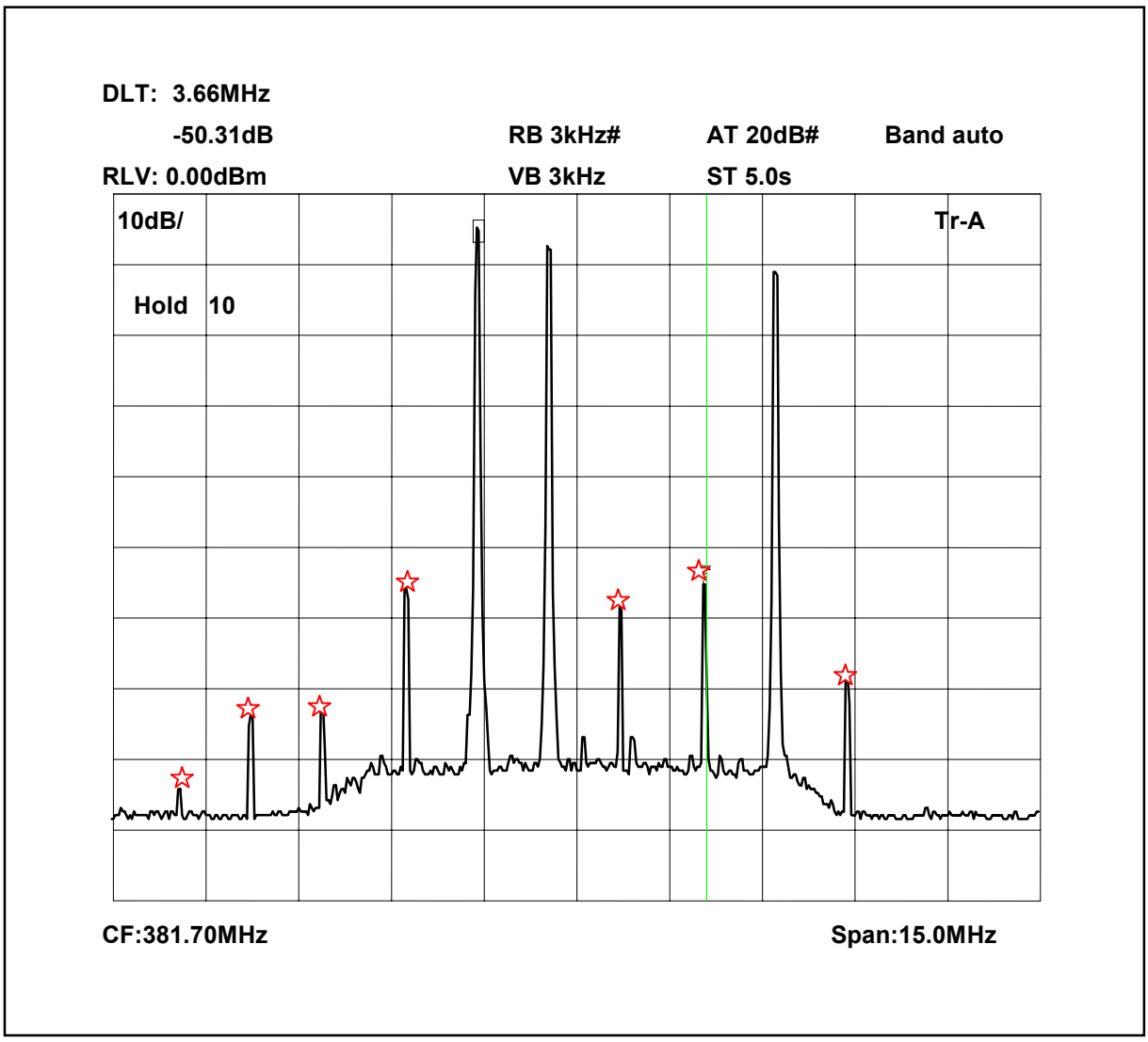
Ambient temperature	=	21°C	Radio Laboratory
Relative humidity	=	53%	
Supply voltage	=	+24 Vdc	



The Intermodulation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of –61.4dBm. The cable and attenuator loss between the EUT and the spectrum analyser was 29.85dB.

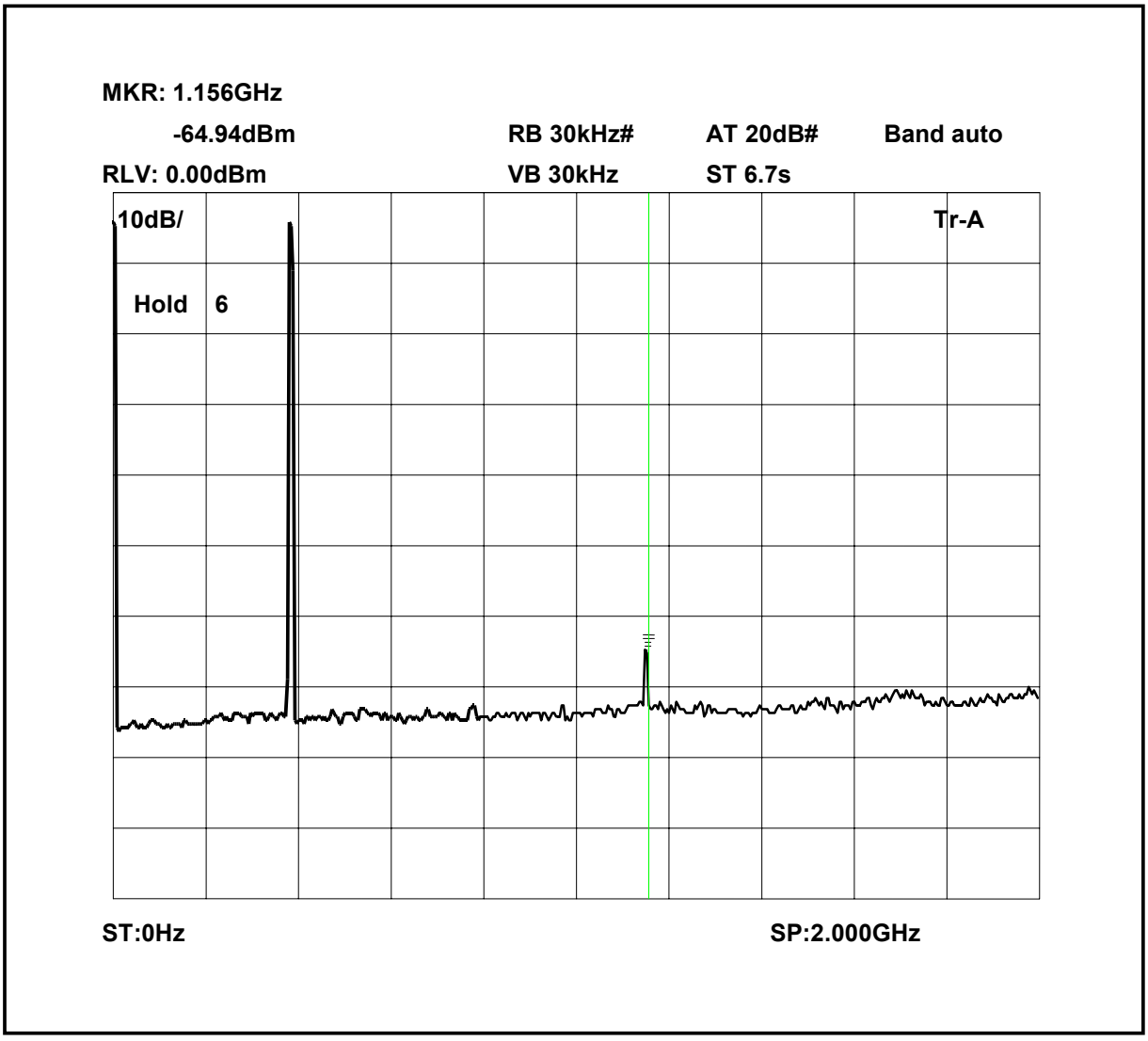
Sweep data is shown on the next page:

Intermodulation Inband



The above plot shows that all products (designated by☆) are at least 50dB below the fundamentals level detailed on previous page .

Intermodulation Wideband



The above plot shows that there are no products outside the transmit band.

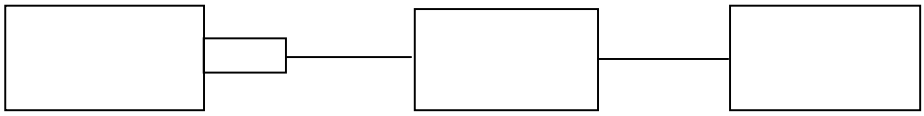
Test equipment used for intermodulation test

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMR 20	834671/003	478	**X**
CMTA	ROHDE & SCHWARZ	CMTA52	894715/033	05	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**
COMBINER	ELCOM	RC-4-50	N/A	170	**X**

TRANSMITTER TESTS

AMPLIFER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– UPLINK

Ambient temperature	=	24^{o}C	Radio Laboratory
Relative humidity	=	48%	
Supply voltage	=	+24 Vdc	
Channel number	=	See test results	



Spectrum Analyser TRL479

Attenuator TRL103 TRL 112 Cable TRL279

EUT

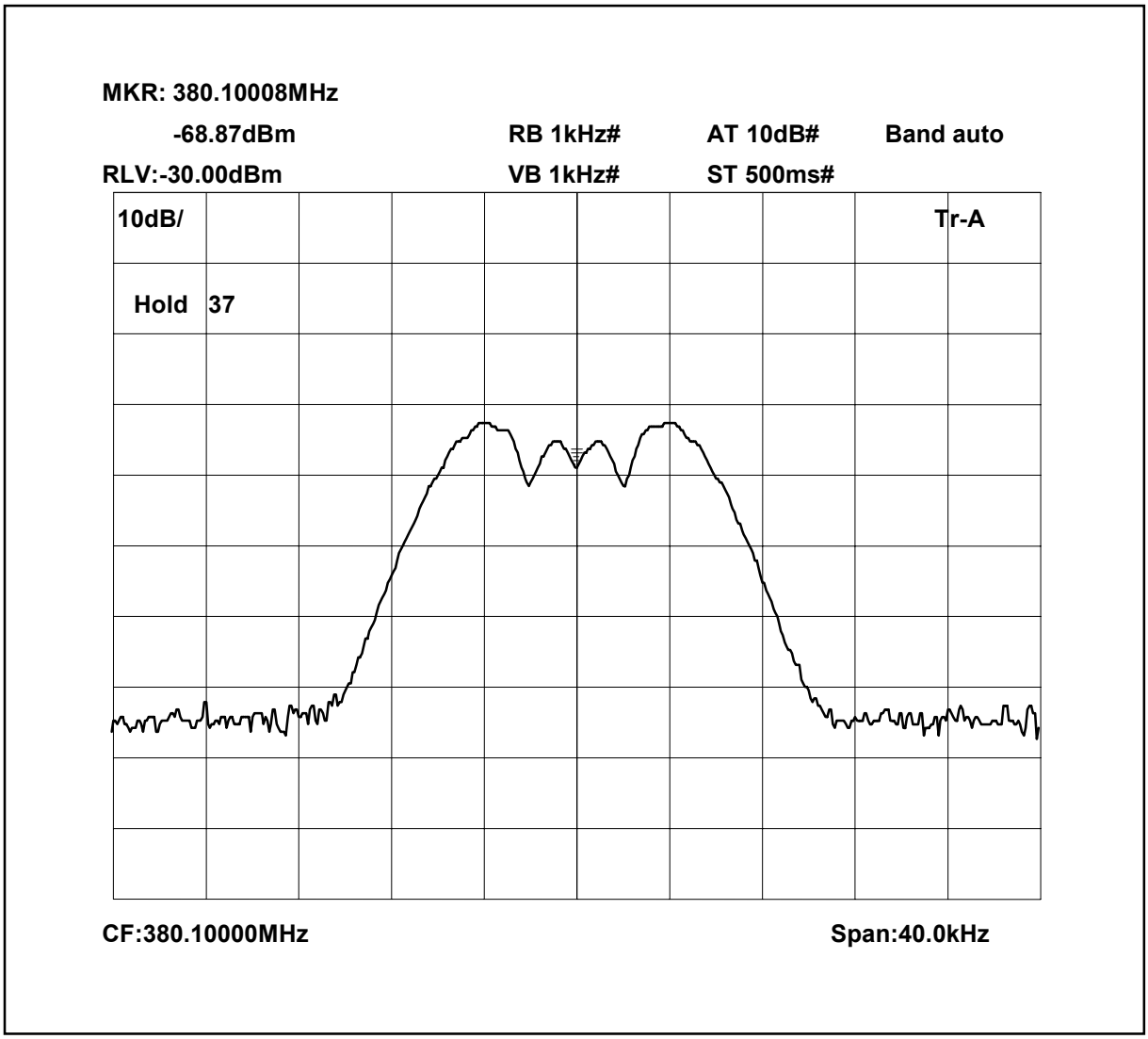
Signal Generator TRL179

This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-61.4 dBm) and modulated with a 2500Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

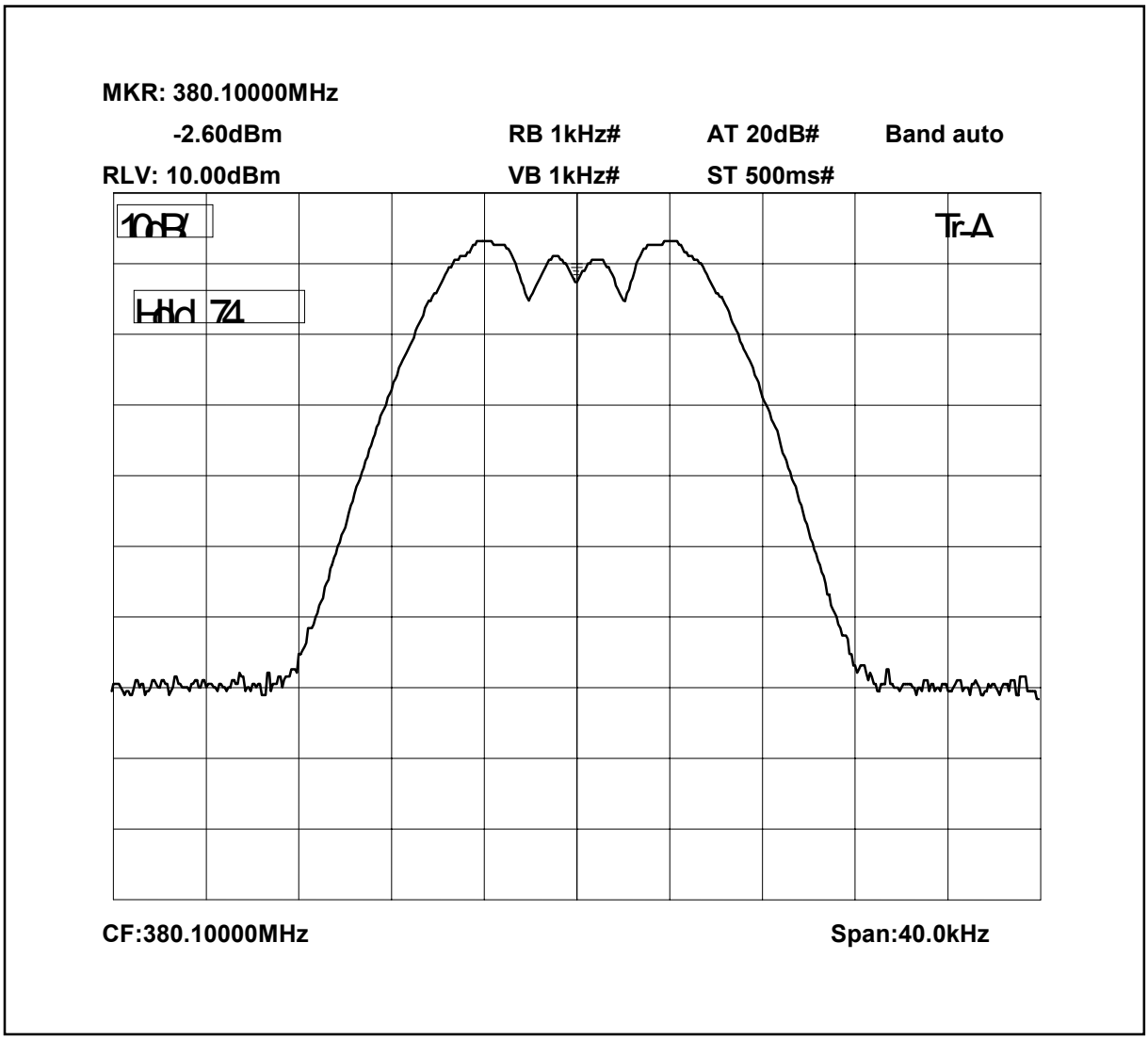
Note: The cables and attenuators had the following losses.

1. Cable TRL279 and attenuator TRL112 TRL103 29.85dB
2. Cable between signal generator and EUT 0.4dB

380.1MHz Signal Generator deviation set to 5kHz

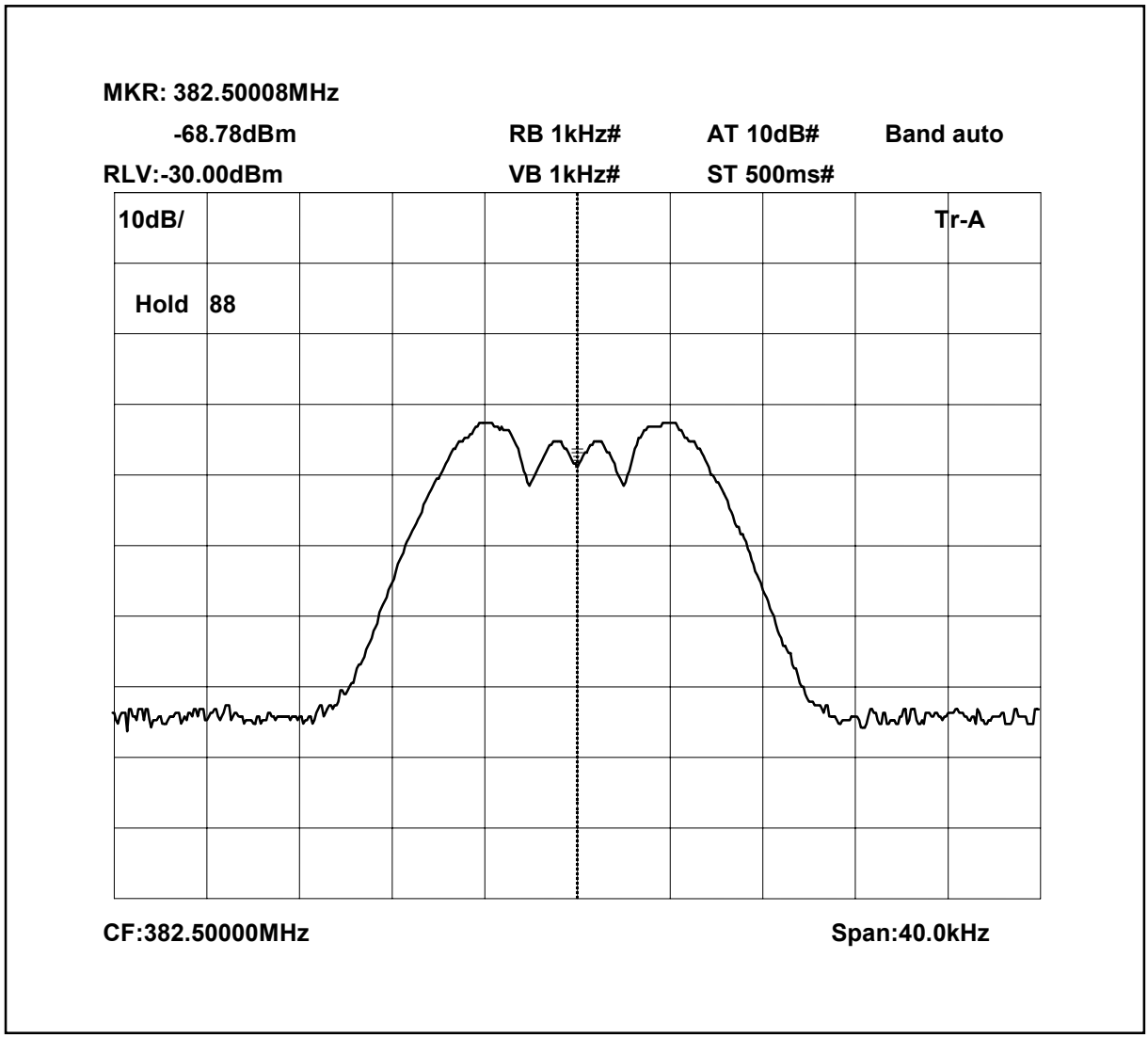


380.1MHz Signal Generator and EUT deviation set to 5kHz

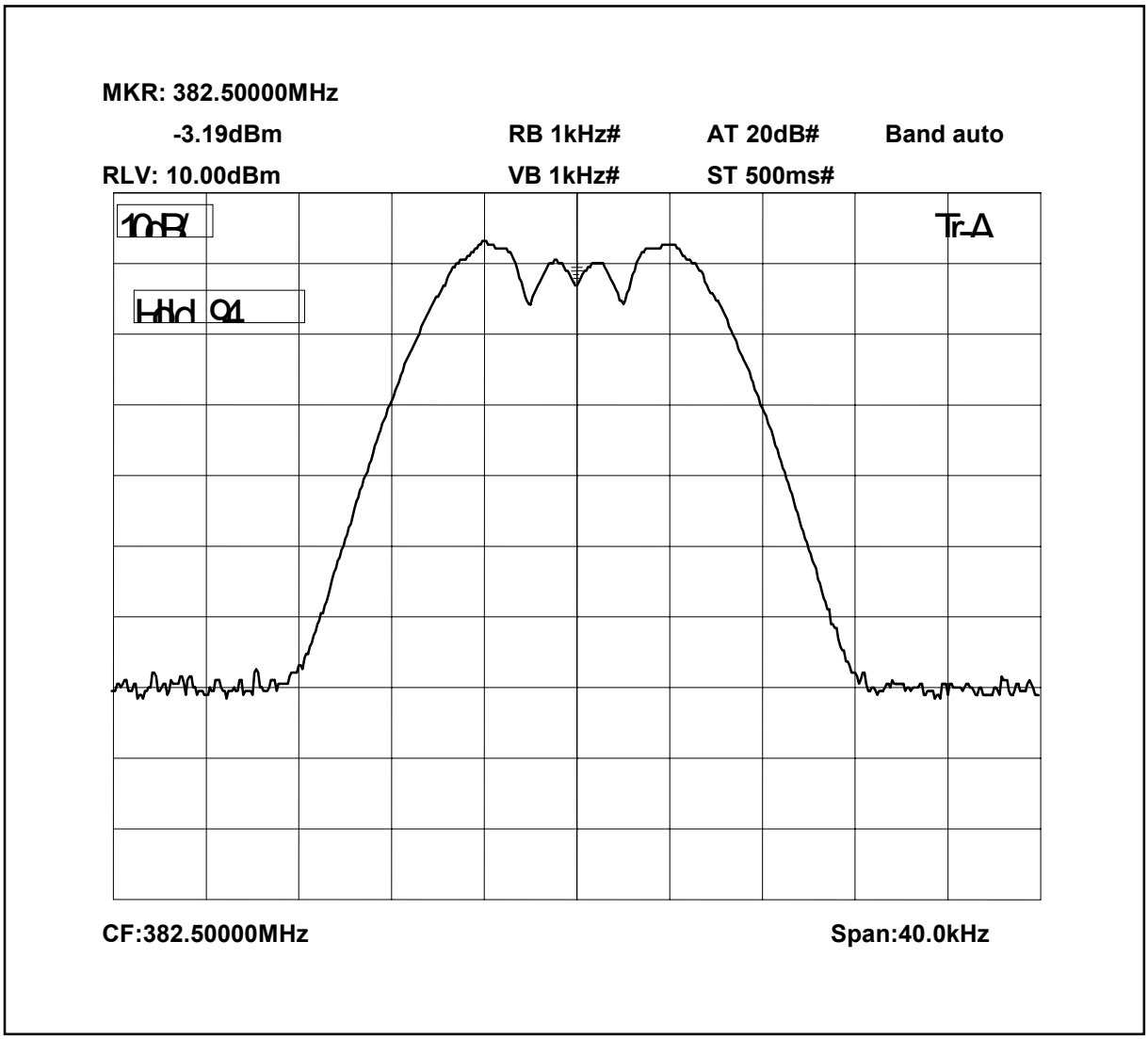


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

382.5MHz Signal Generator deviation set to 5kHz

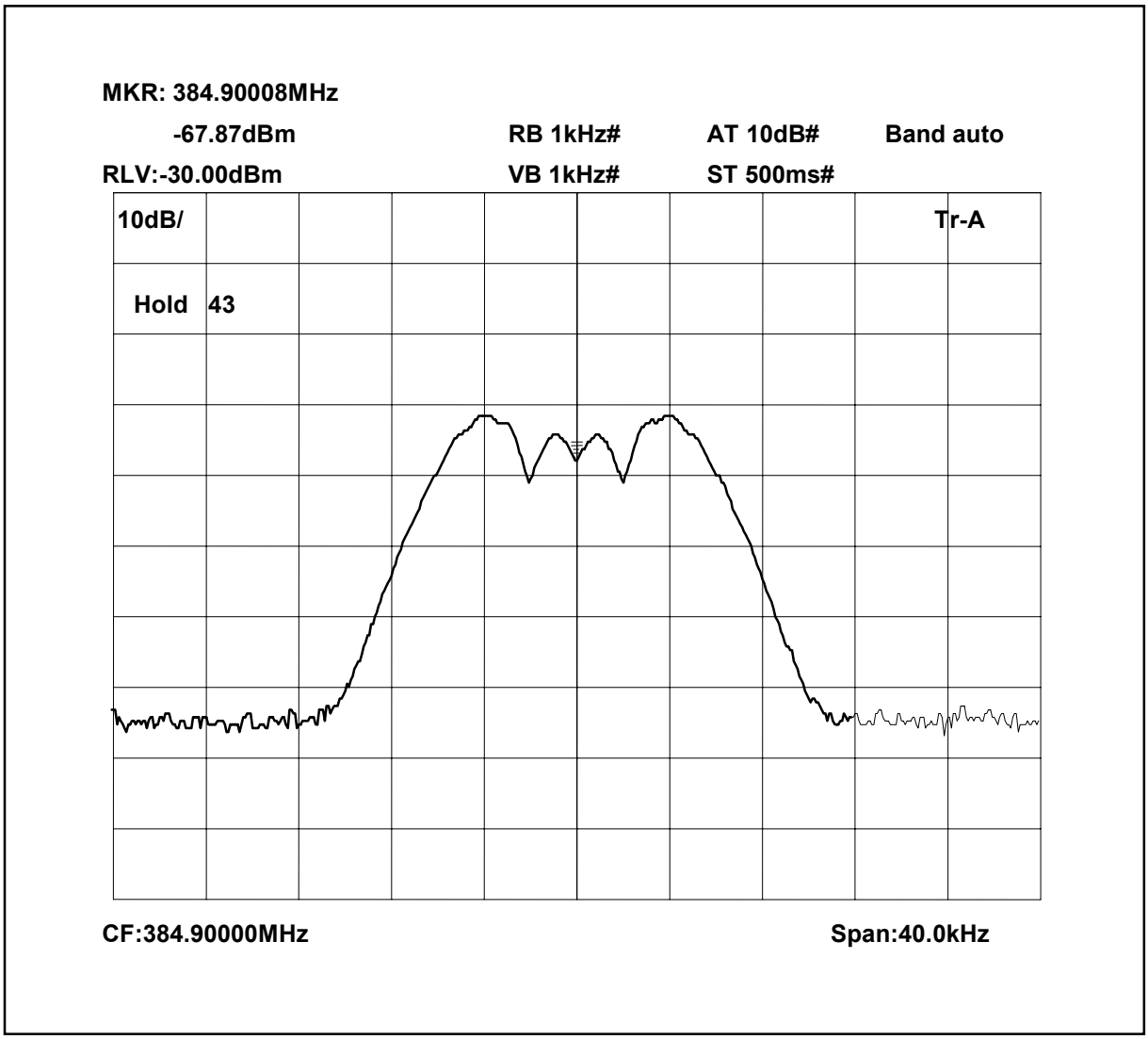


382.5MHz Signal Generator and amplifier deviation set to 5kHz

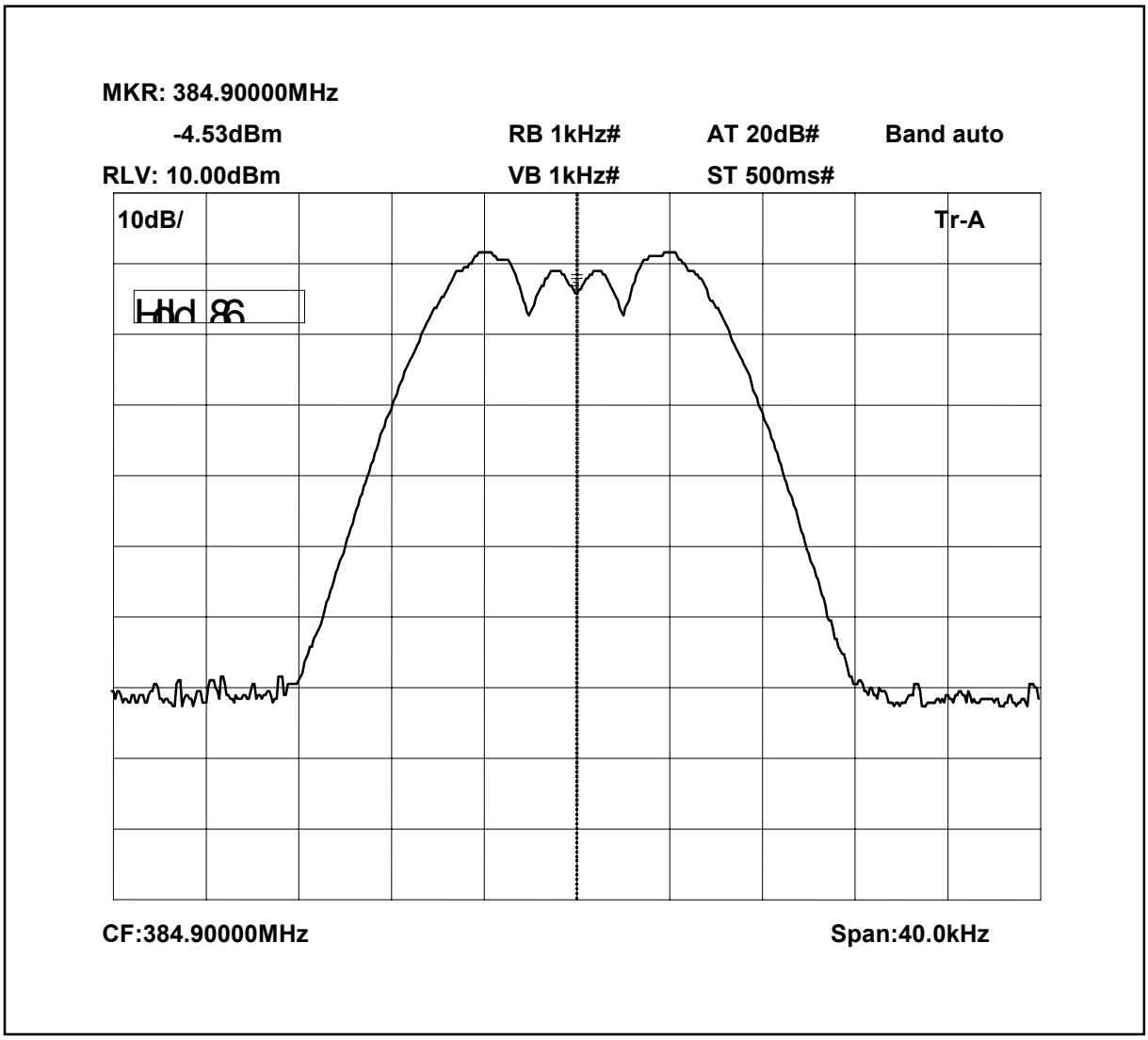


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

384.9MHz Signal Generator deviation set to 5kHz



384.9MHz Signal Generator deviation set to 5kHz



The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

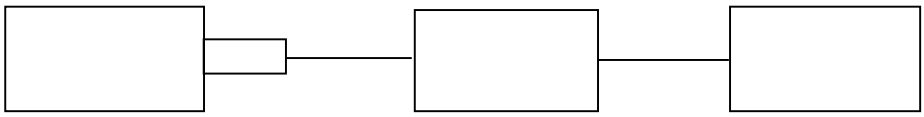
The test equipment used for the Transmitter Modulated Channel tests is shown overleaf:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8308-200	N/A	103	**X**
ATTENUATOR	BIRD	8308-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1051 dBm– UPLINK

Ambient temperature	=	19°C	Radio Laboratory		
Relative humidity	=	45%	Test Signal	=	F3E
Supply voltage	=	+24 Vdc			



Spectrum Analyser TRL479

Attenuator TRL103
TRL112
Cable TRL279

EUT

Signal Generator TRL179

The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

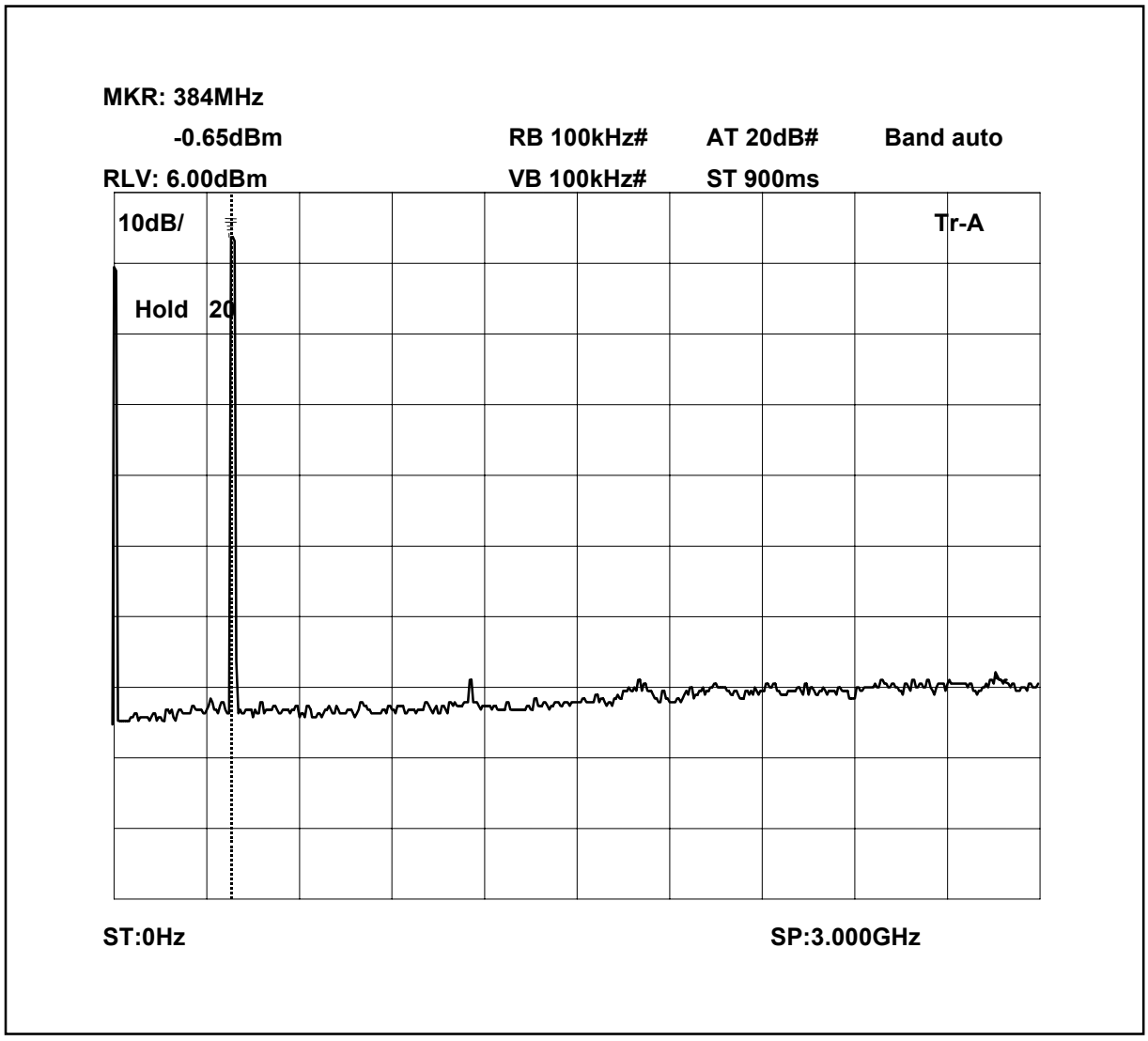
At least 43 + 10 log PdB

$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

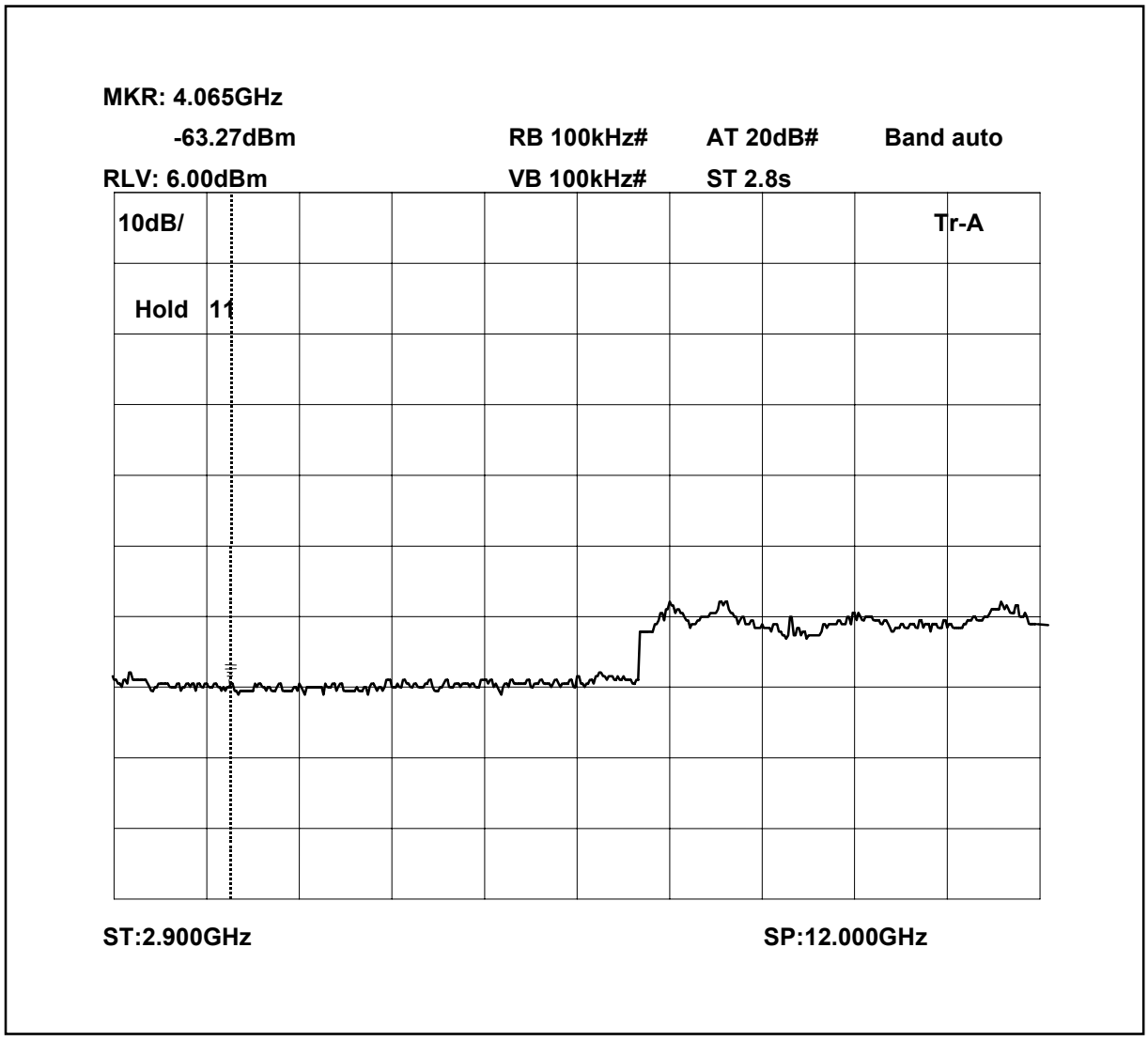
The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8308-200	N/A	103	**X**
ATTENUATOR	BIRD	8308-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

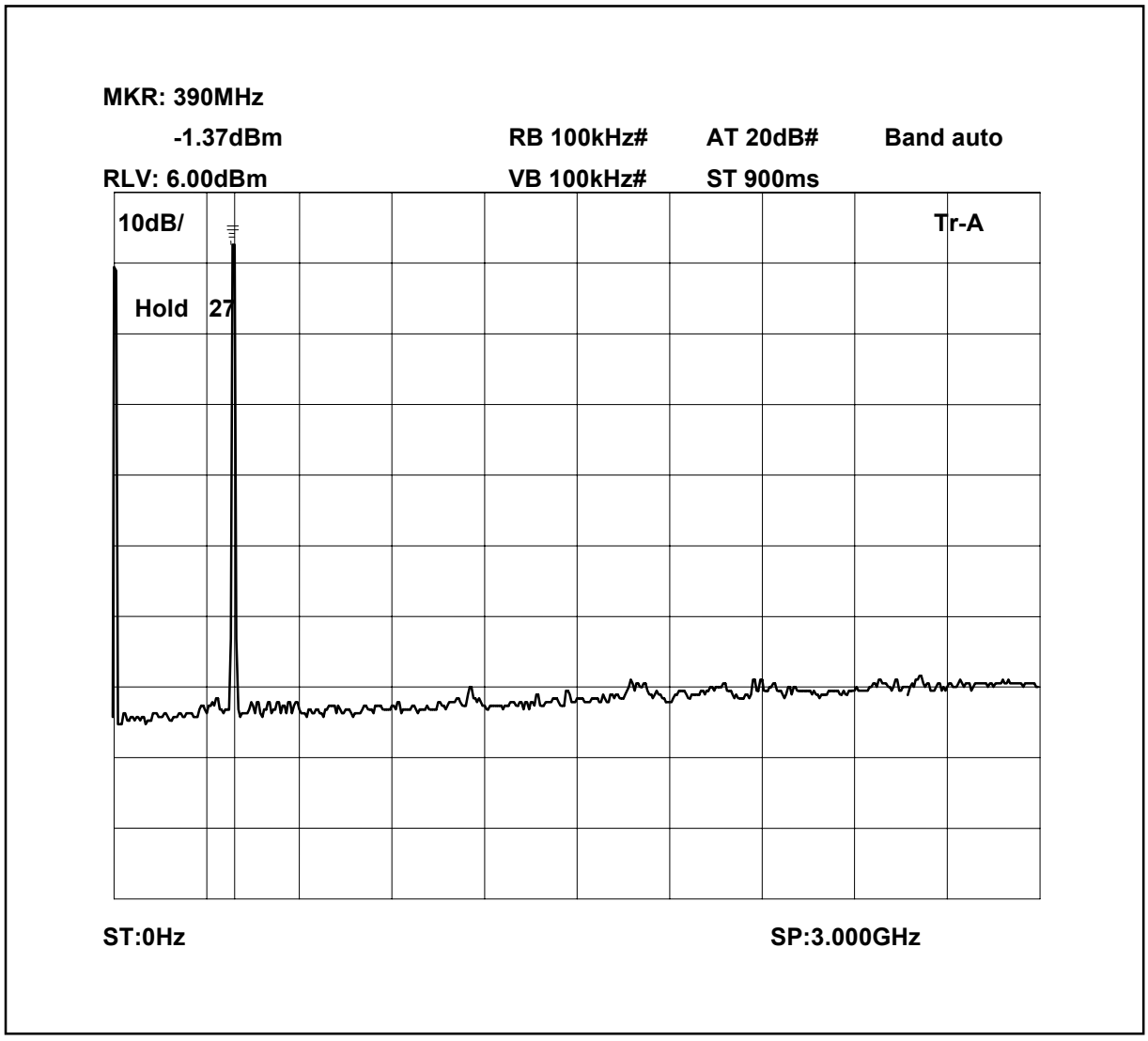
Conducted emissions 380.1MHz 0 – 3GHz



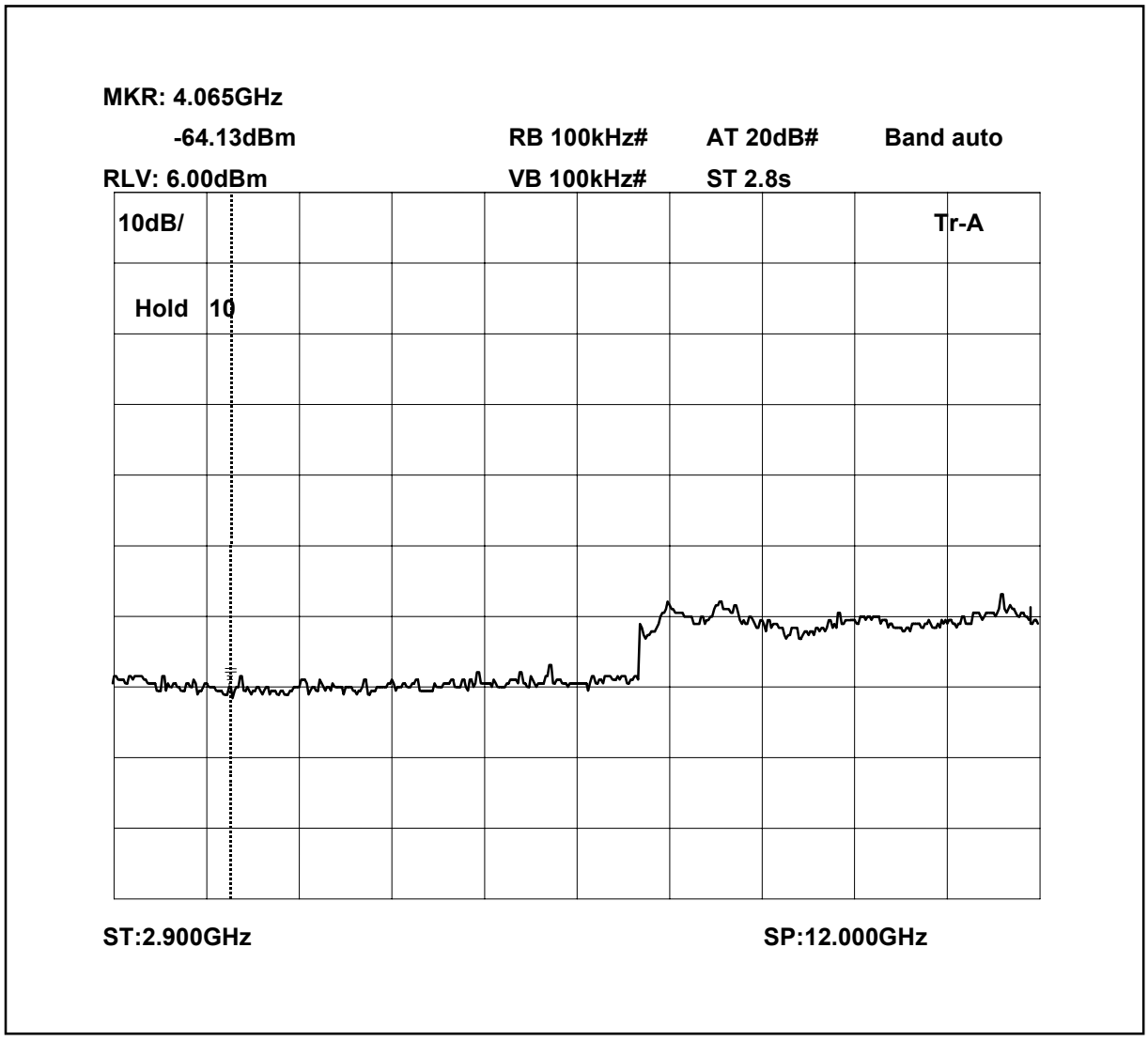
Conducted emissions 380.1MHz 2.9 - 12GHz



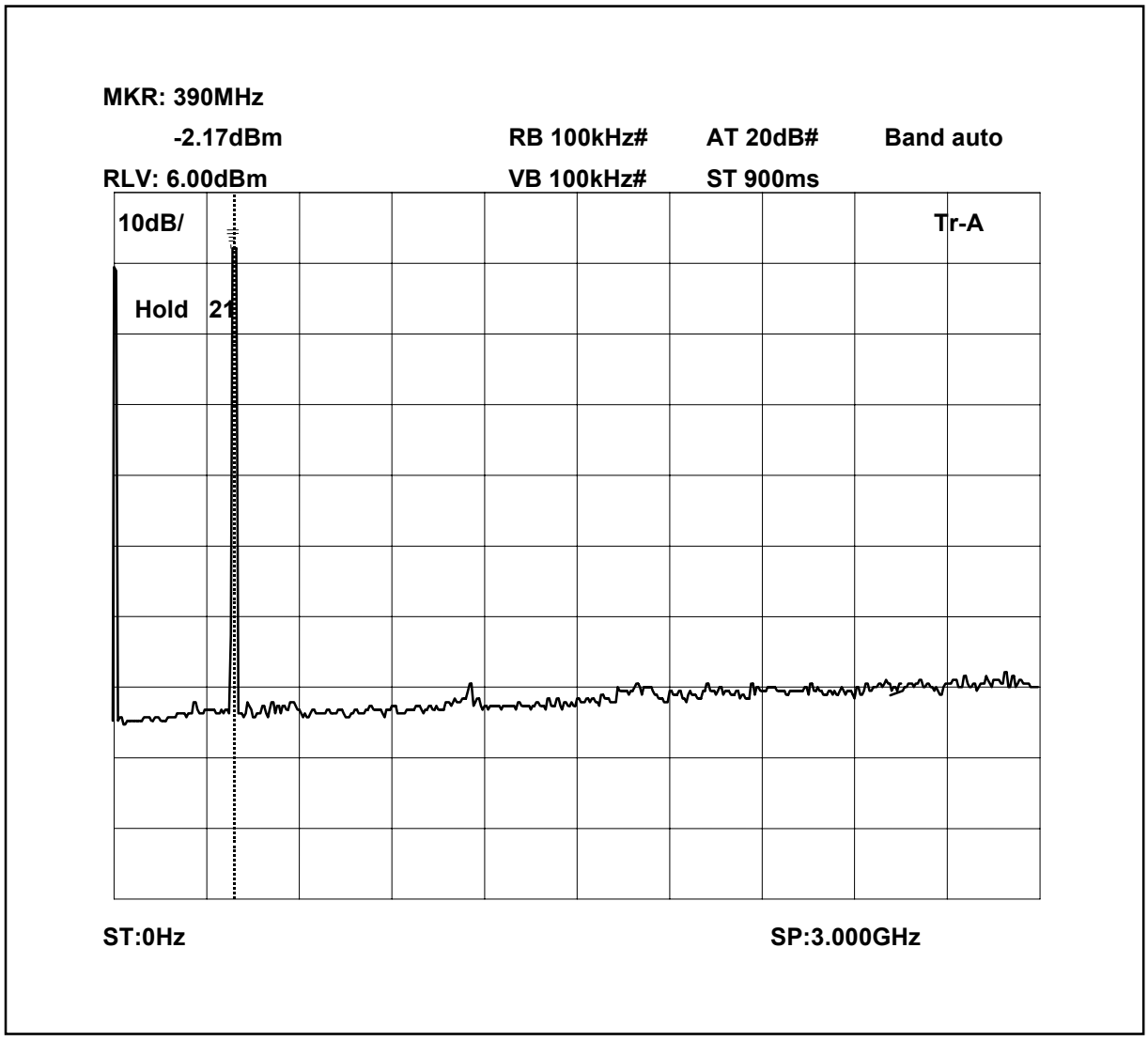
Conducted emissions 382.5 MHz 0 - 3GHz



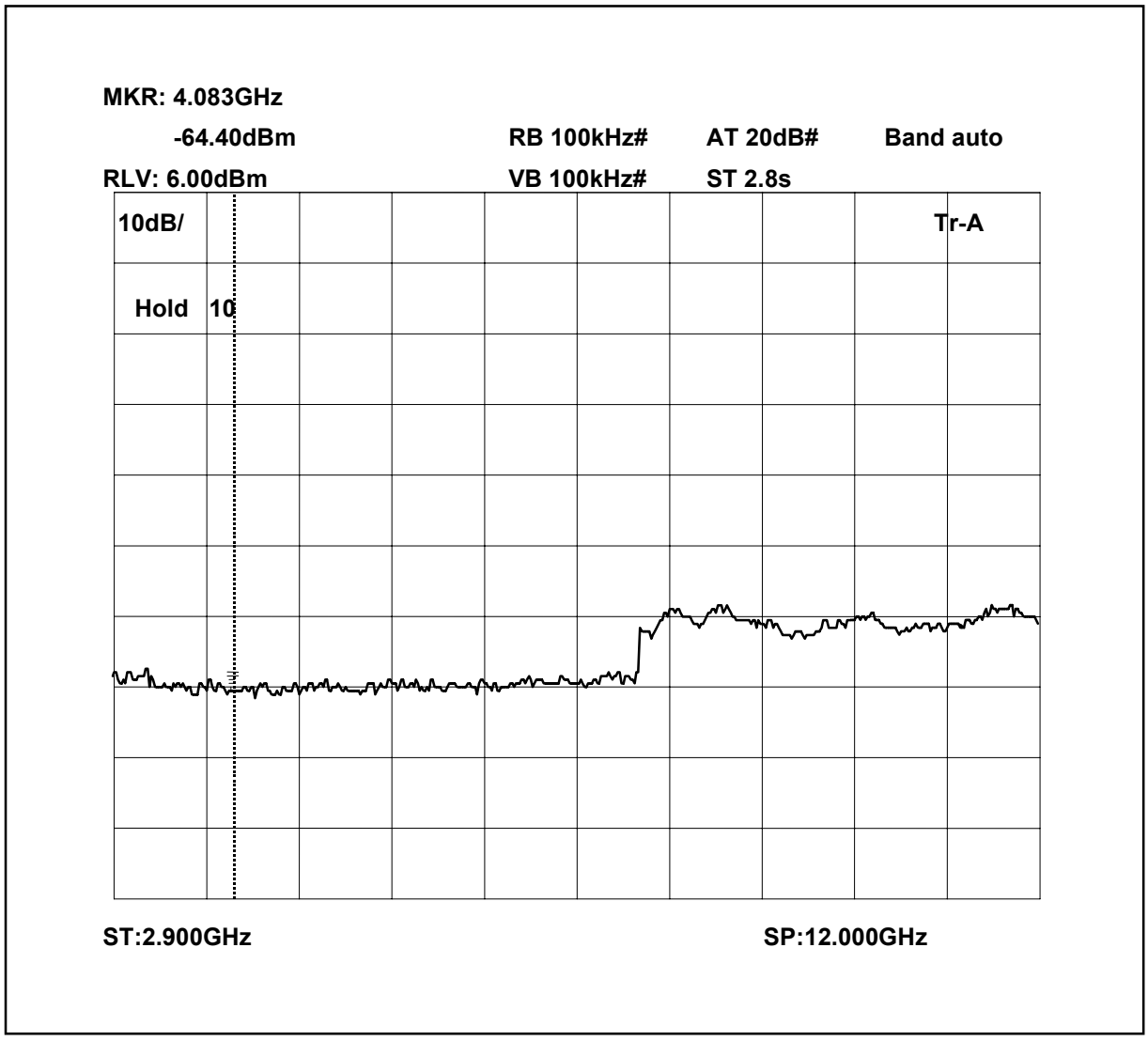
Conducted emissions 382.5MHz 2.9 - 12GHz



Conducted emissions 384.9MHz 0 - 3GHz



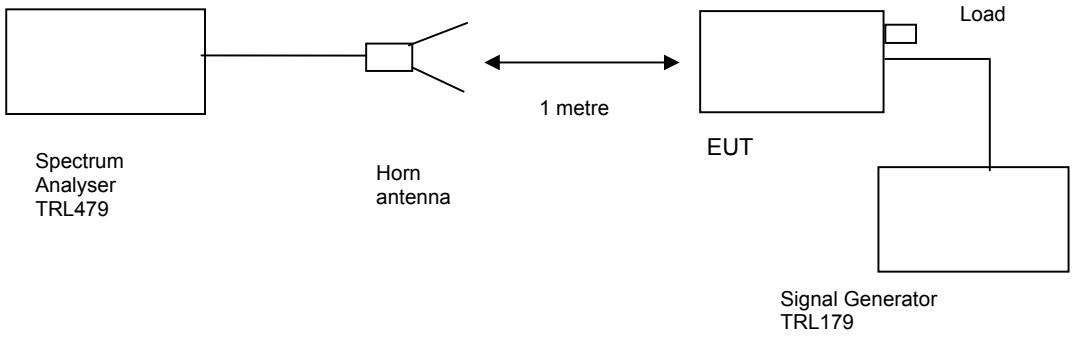
Conducted emissions 384.9MHz 2.9 - 12GHz



TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– UPLINK

Ambient temperature	=	19°C	Test Signal	=	F3E
Relative humidity	=	45%			
Conditions	=	OATS			
Supply voltage	=	+24 Vdc			
Supply Frequency	=	N/A			



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load on the output. The unit was also tested with the signal generator replaced by another 50ohm load.

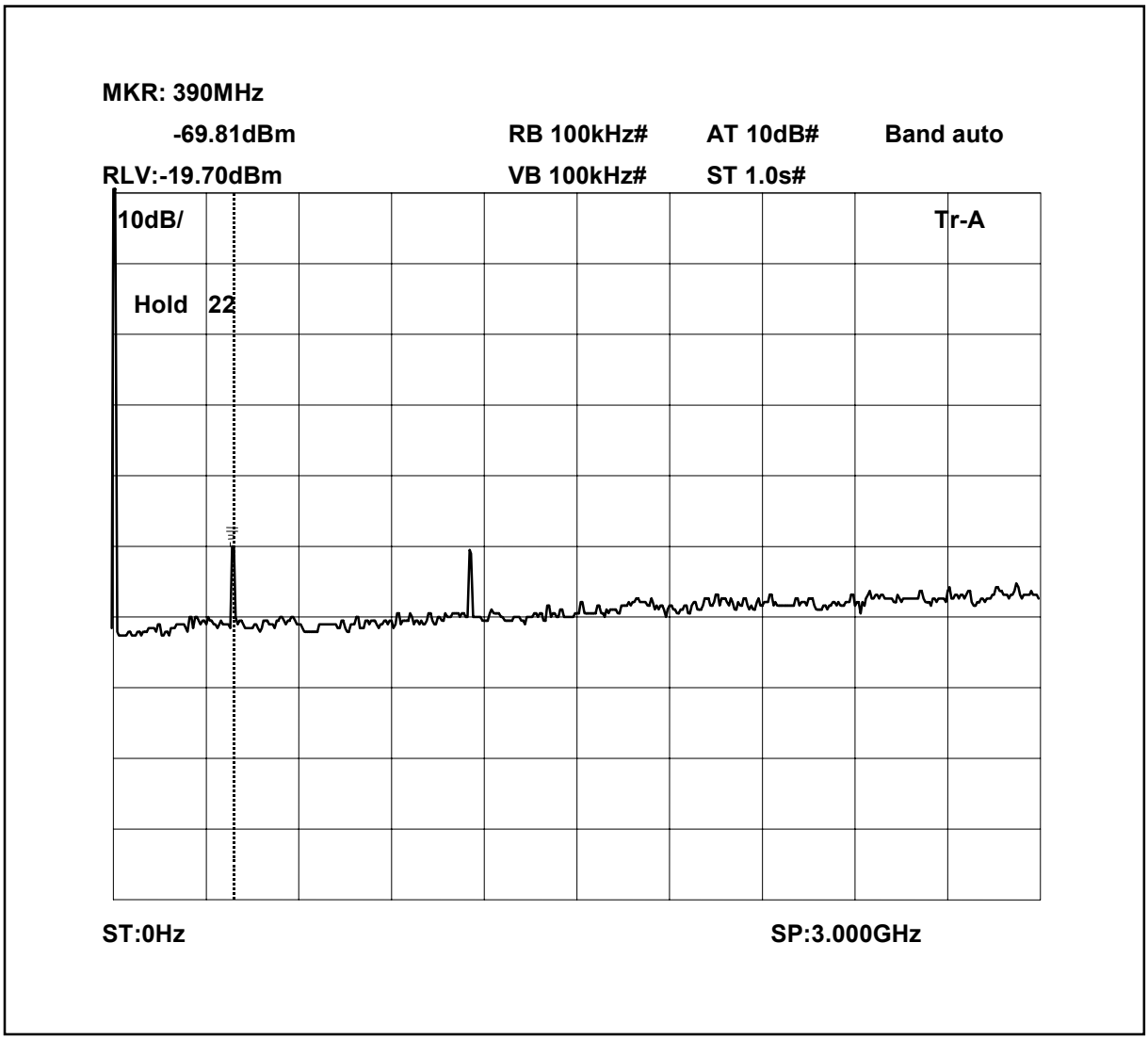
The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least 43 + 10 log PdB

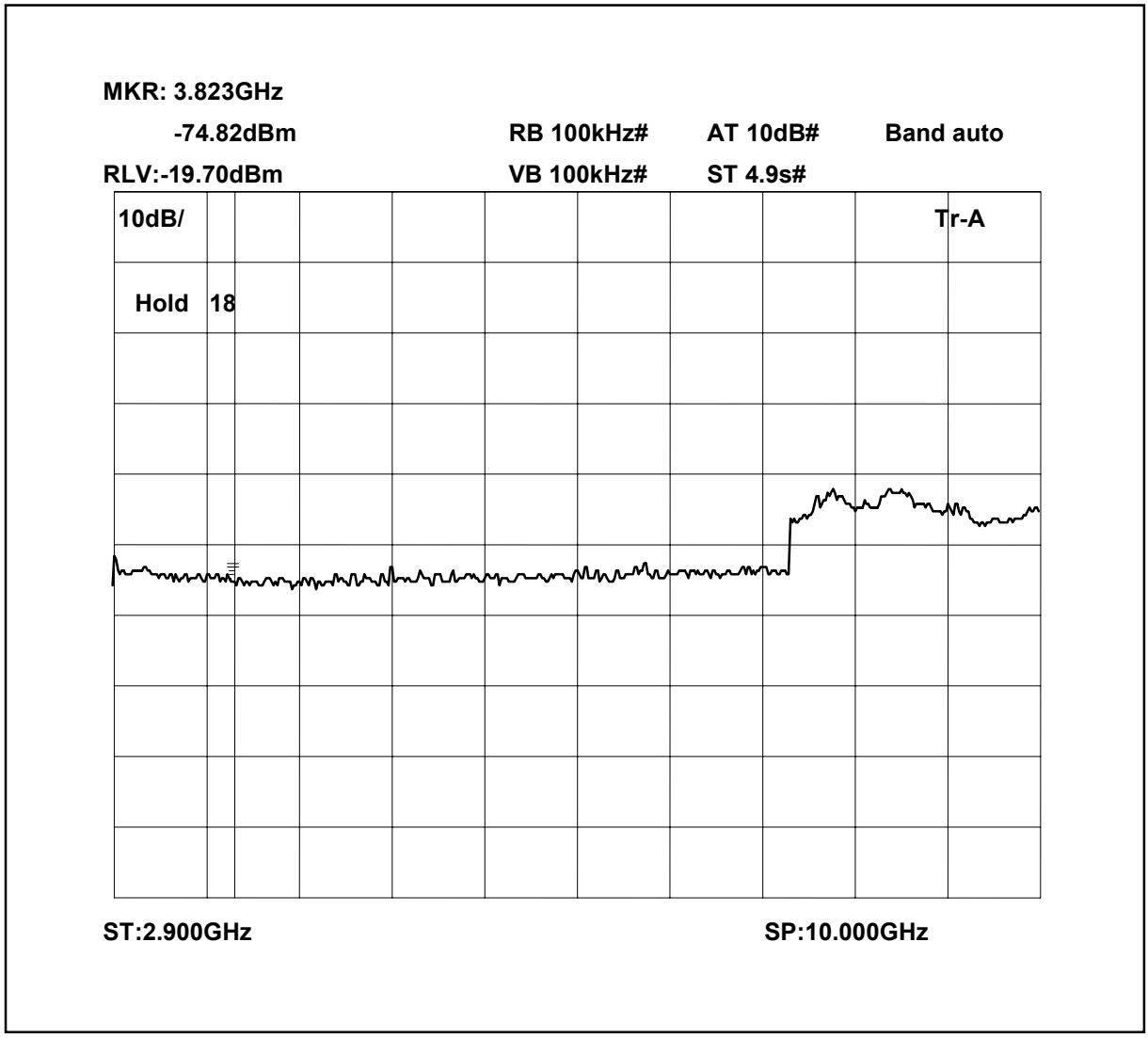
$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000))$ = LIMIT =-13 dBm

Radiated emissions 380.1 MHz 0-3GHz



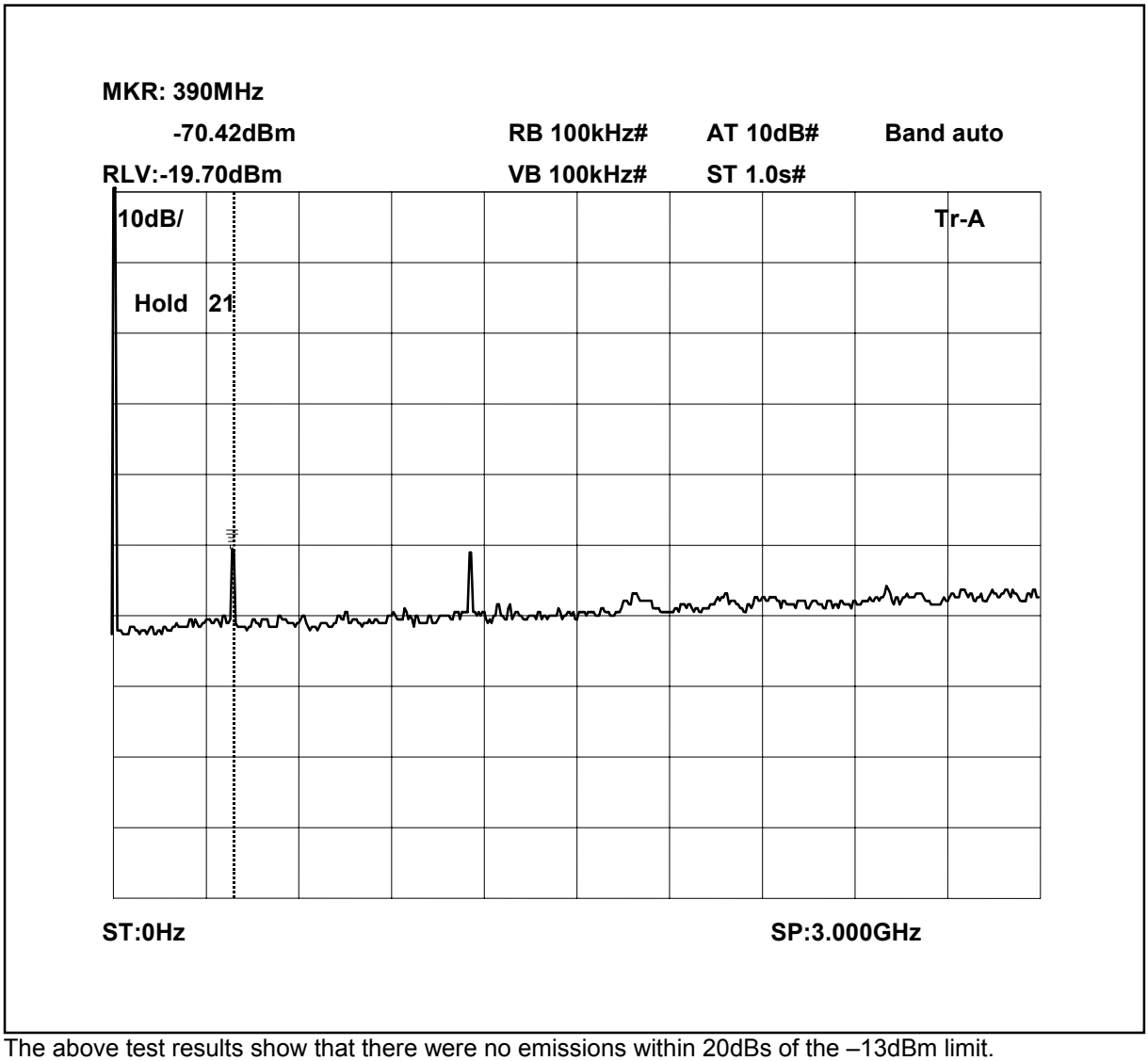
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 380.1MHz 2.9-10GHz



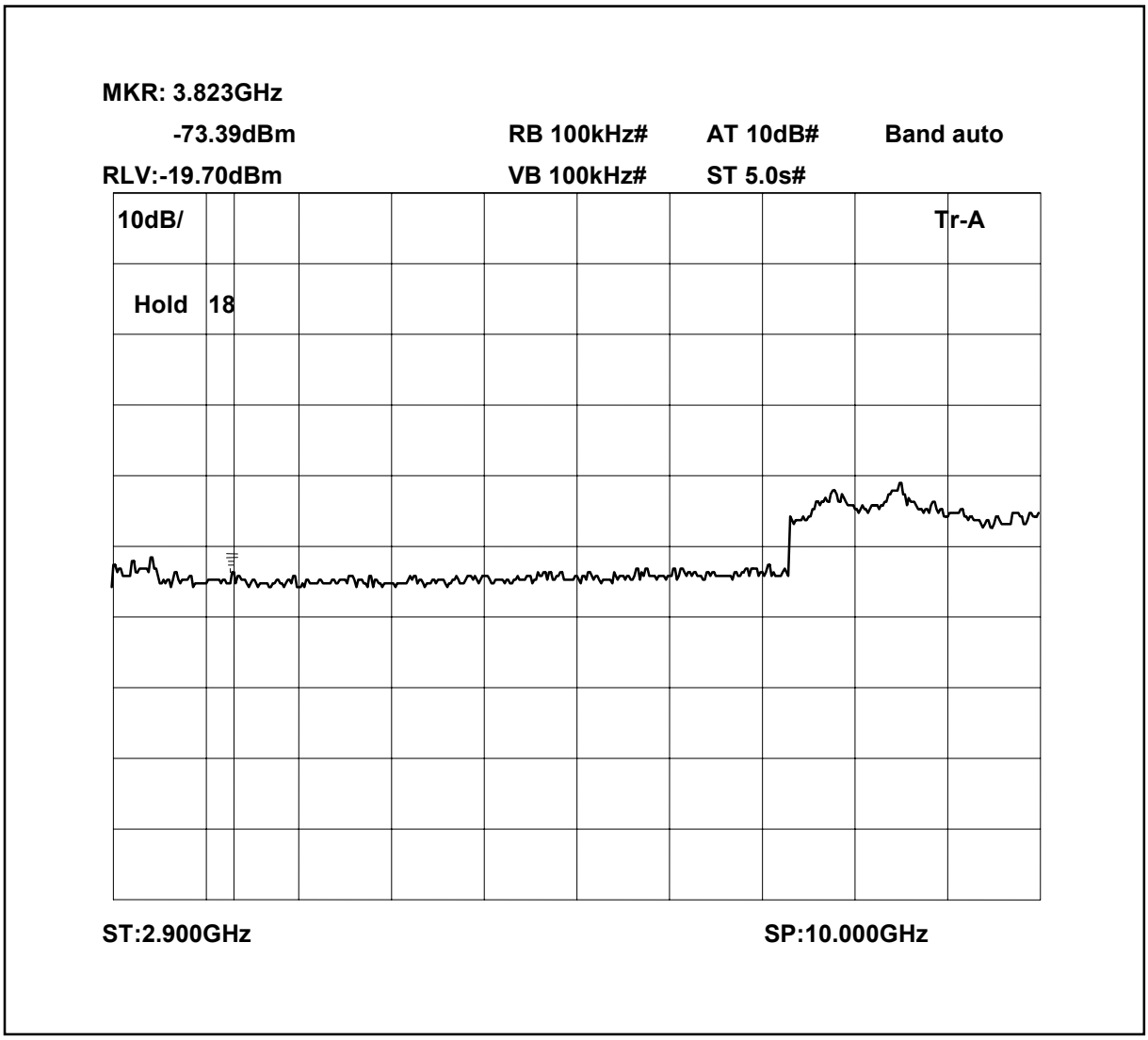
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 382.5MHz 0-3GHz



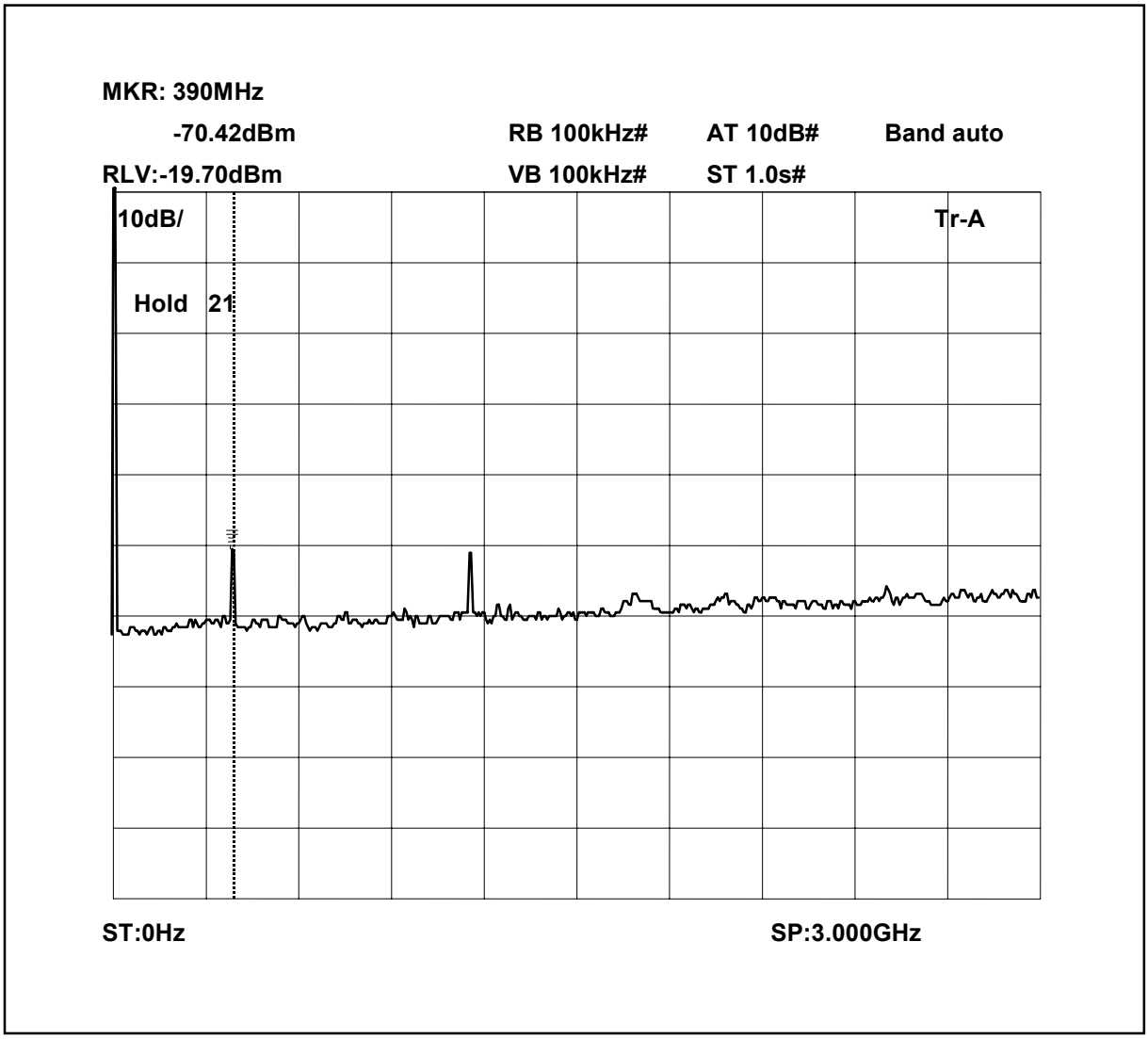
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 382.5MHz 2.9-10GHz



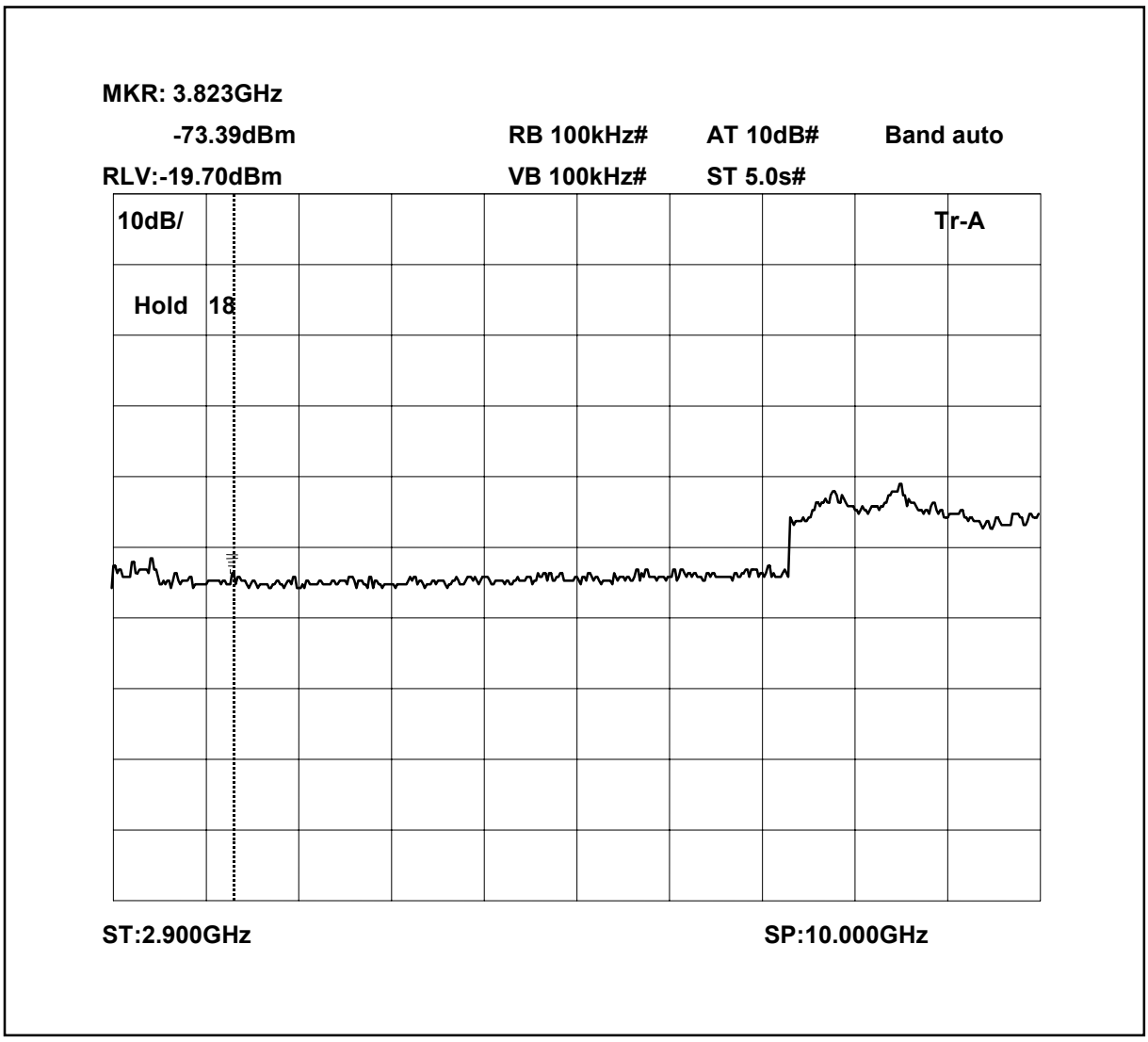
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 384.9MHz 0-3GHz



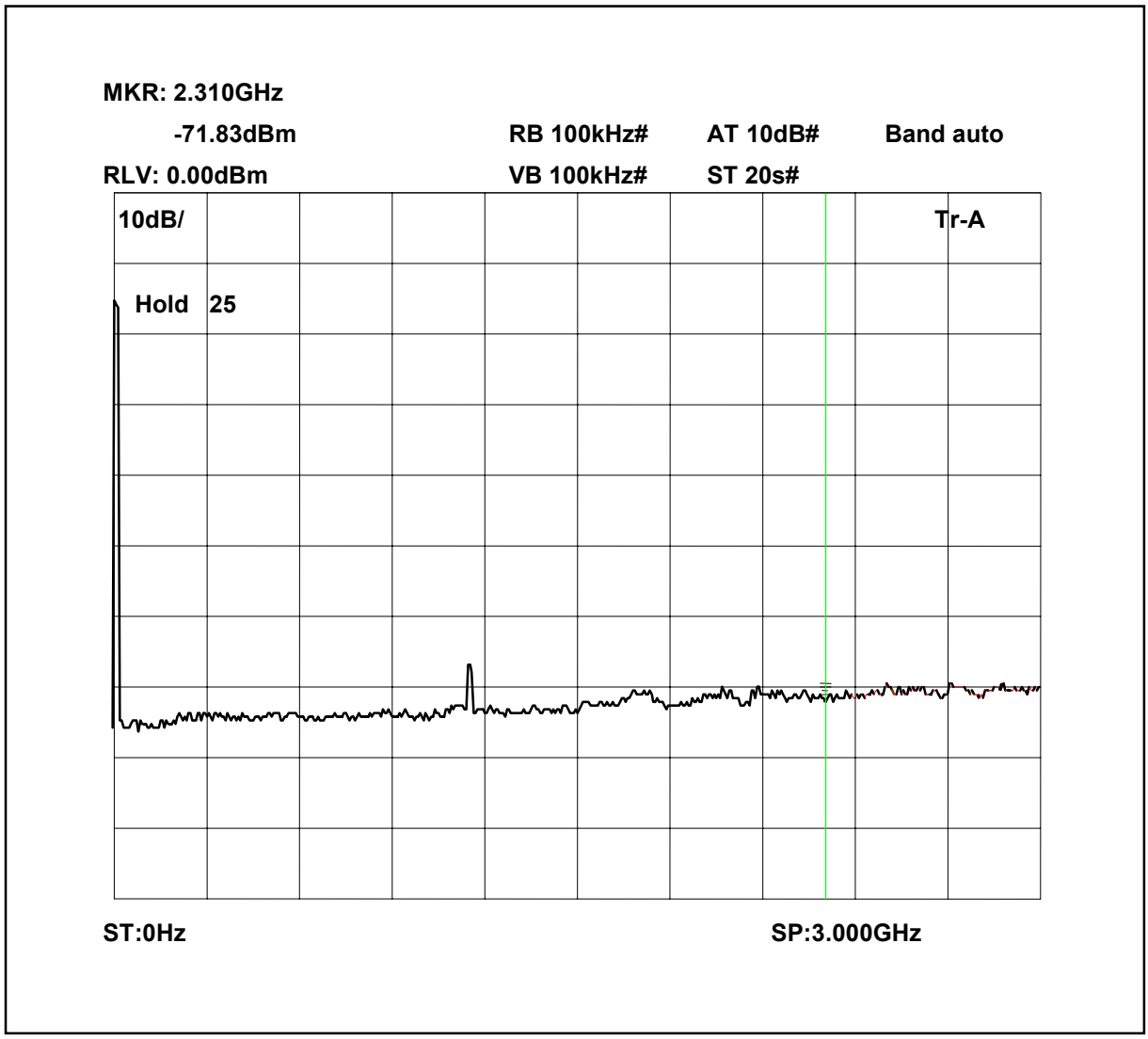
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 384.9MHz 2.9-10GHz



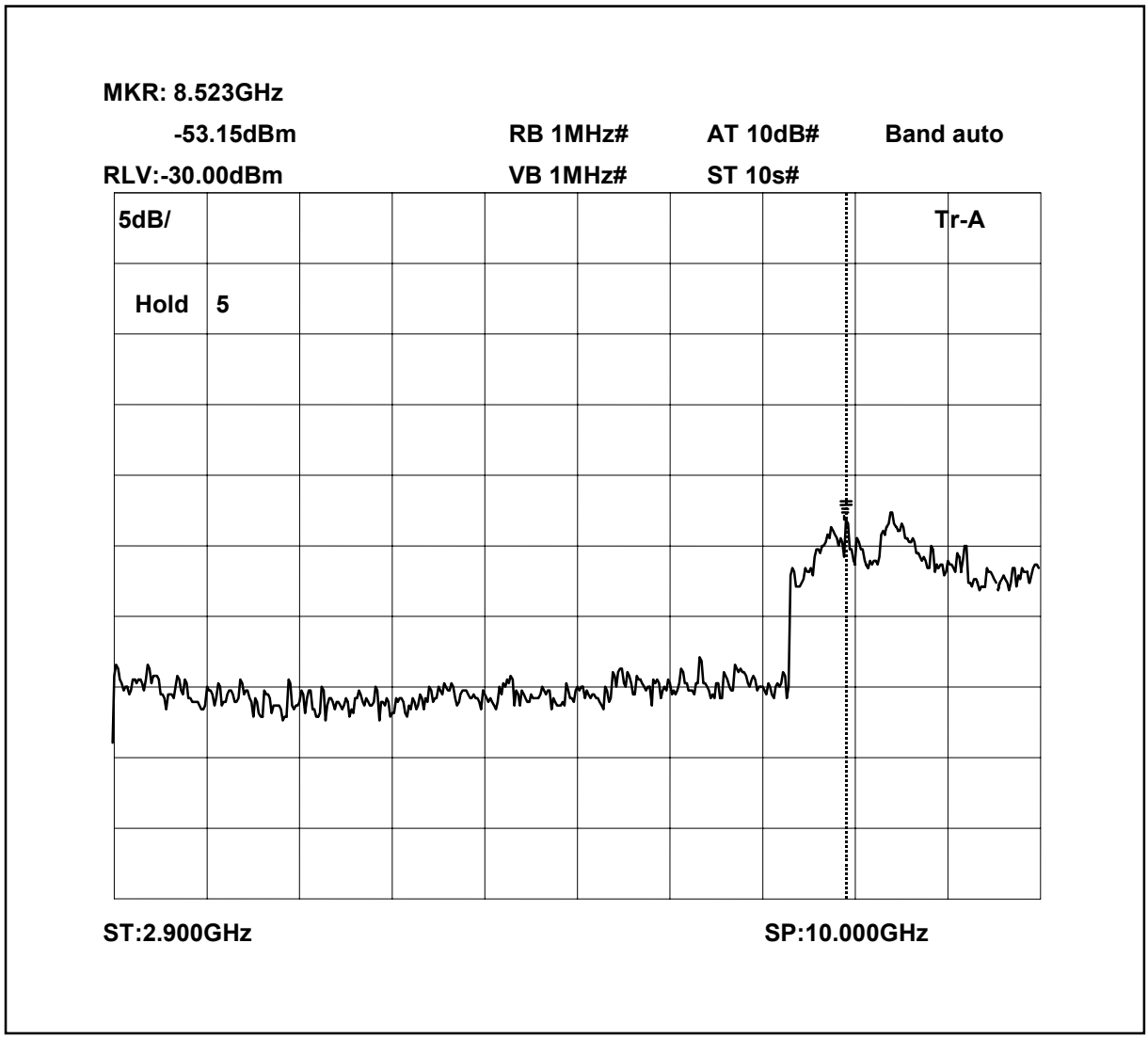
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 0-3GHz



The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 2.9-10GHz



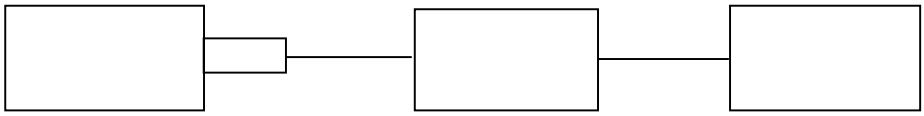
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

The test equipment used for the Transmitter Spurious Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
HORN	EMCO	3115	9010-3581	139	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	103	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
50Ω Load	PHILCO	160B-300	1643	UH139	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – DOWNLINK

Ambient temperature	=	21°C	Radio Laboratory
Relative humidity	=	37%	
Supply voltage	=	+24 Vdc	
Channel number	=	See test results	



Spectrum Analyser TRL479

Attenuator TRL112
TRL103 Cable
TRL279

EUT

Signal Generator TRL179

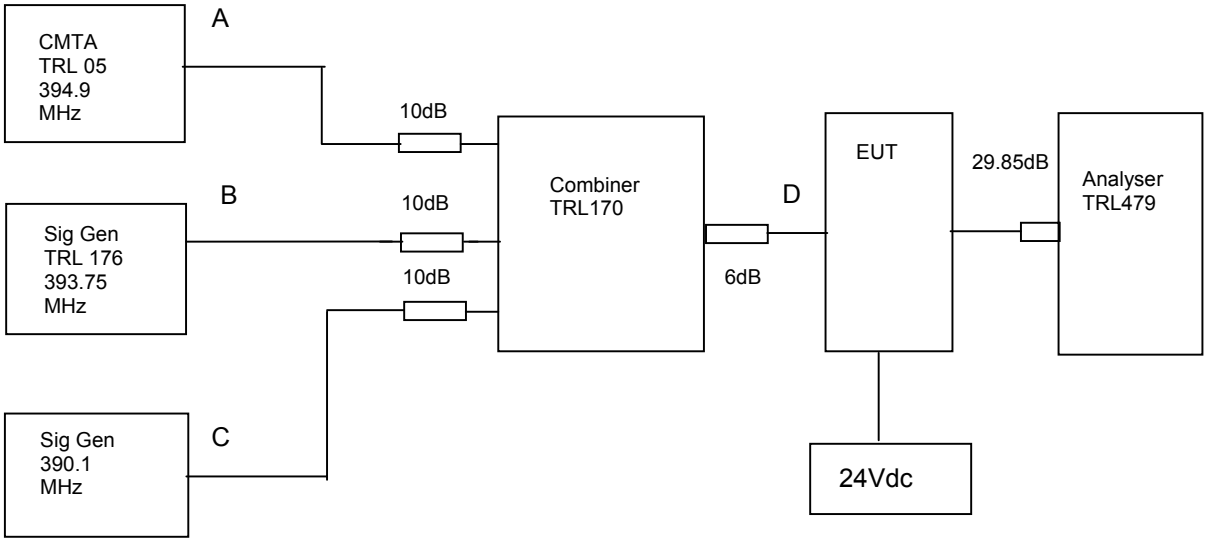
Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
390.1	-55.0	-29.85	-0.64	+84.6	+84.6
392.5	-57.5	-29.85	-0.79	+84.56	+84.56
394.9	-57.4	-29.85	-0.79	+86.84	+86.84

Notes:
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator output was increased by 20dBs and the level of the output signal remeasured

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	103	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

AMPIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– DOWNLINK

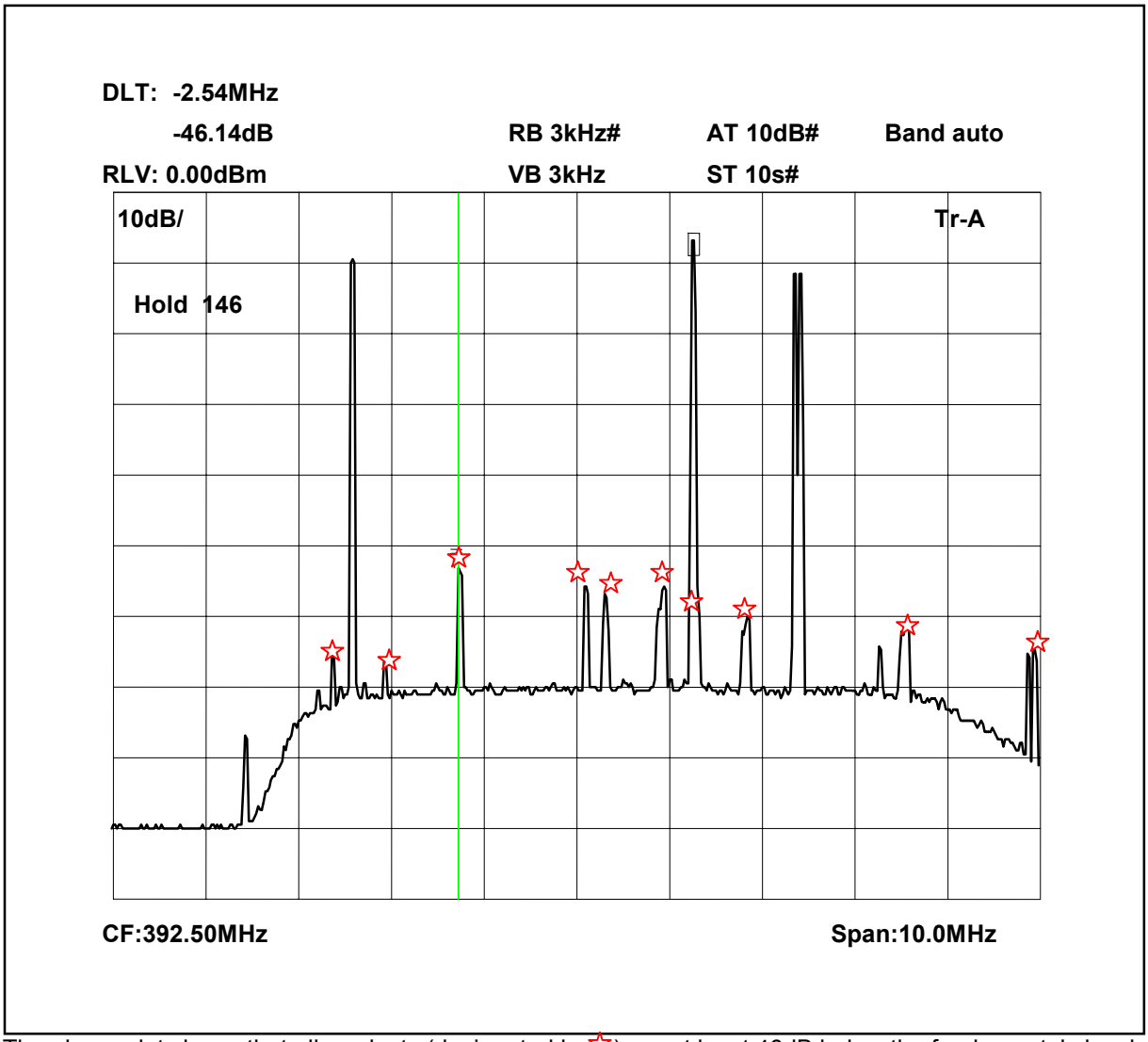
Ambient temperature	=	21°C	Radio Laboratory
Relative humidity	=	37%	
Supply voltage	=	+24 Vdc	



The Intermodulation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of –53.4dBm The cable and attenuators loss between the EUT and the spectrum analyser was 29.85 dB.

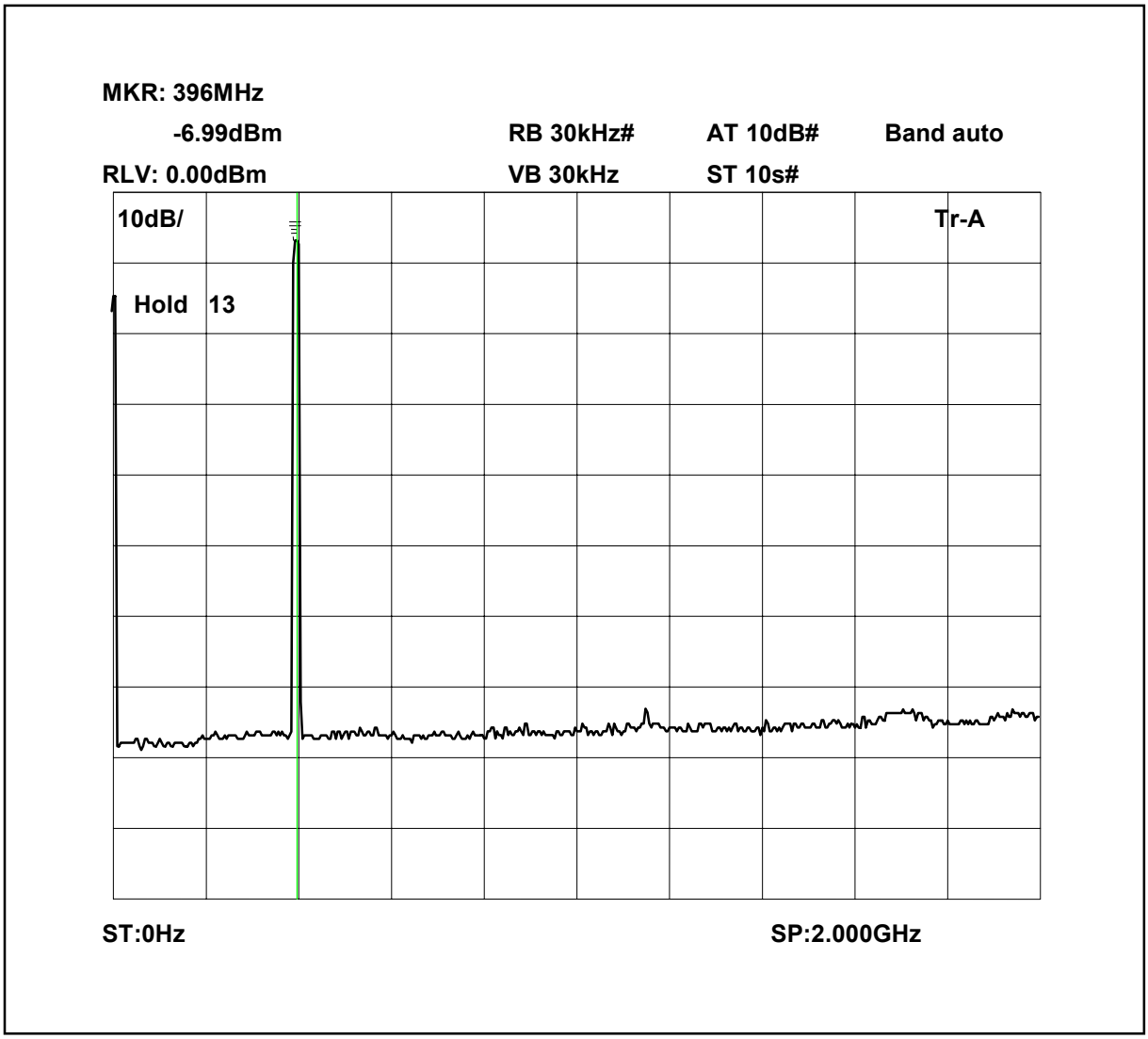
Sweep data is shown on the next page:

Intermodulation Inband



The above plot shows that all products (designated by ☆) are at least 46dB below the fundamentals level detailed on previous page .

Intermodulation Wideband



The above plot shows that there are no products outside the transmit band.

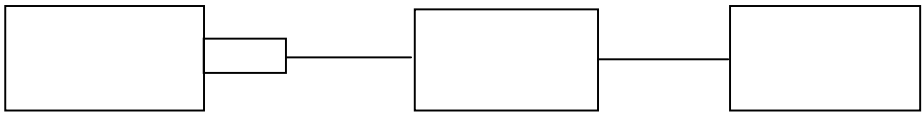
Test equipment used for intermodulation test

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMR 20	834671/003	478	**X**
CMTA	ROHDE & SCHWARZ	CMTA52	894715/033	05	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**
COMBINER	ELCOM	RC-4-50	N/A	170	**x**

TRANSMITTER TESTS

AMPLIFER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– DOWNLINK

Ambient temperature	=	24°C	Radio Laboratory
Relative humidity	=	48%	
Supply voltage	=	+24 Vdc	
Channel number	=	See test results	



Spectrum Analyser TRL479

Attenuator TRL103
TRL112Cable
TRL279

EUT

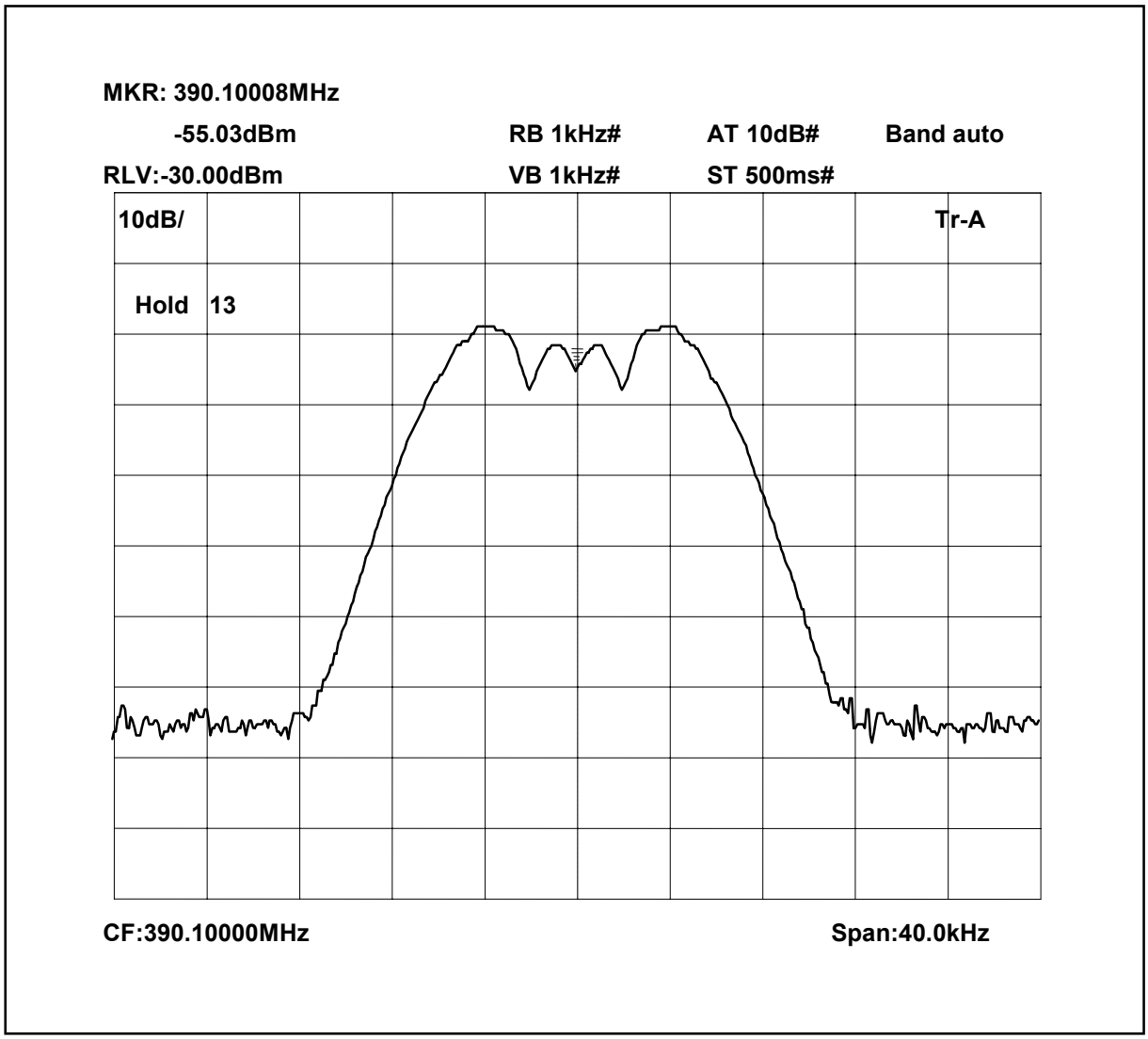
Signal Generator TRL179

This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-55.4Bm) and modulated with a 2500Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

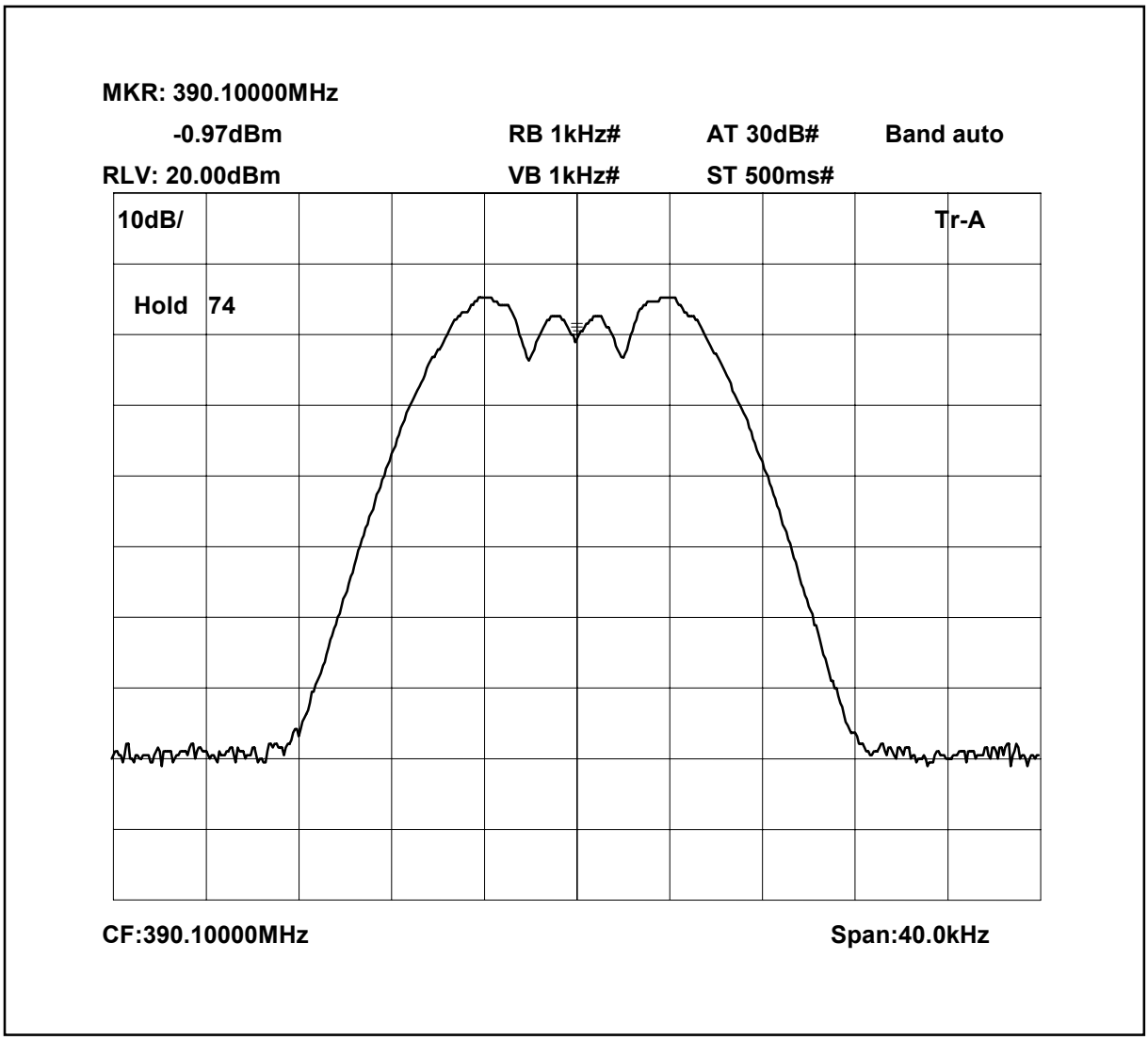
Note: The cables and attenuators had the following losses.

1. Cable TRL279 and attenuators TRL220 = 29.85dB
2. Cable between signal generator and EUT = 0.4dB

390.1MHz Signal Generator deviation set to 5kHz

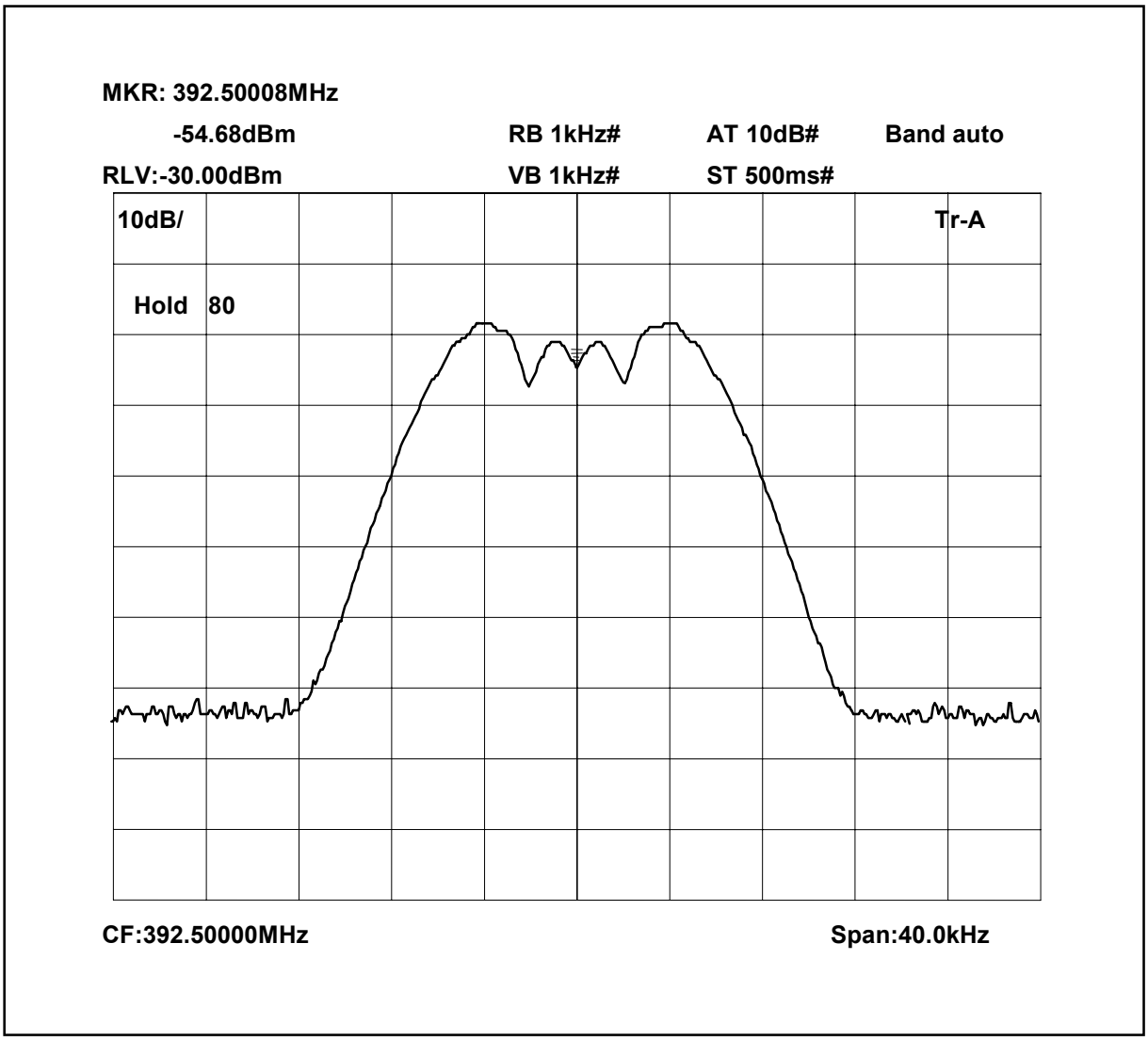


390.1MHz Signal Generator and EUT deviation set to 5kHz

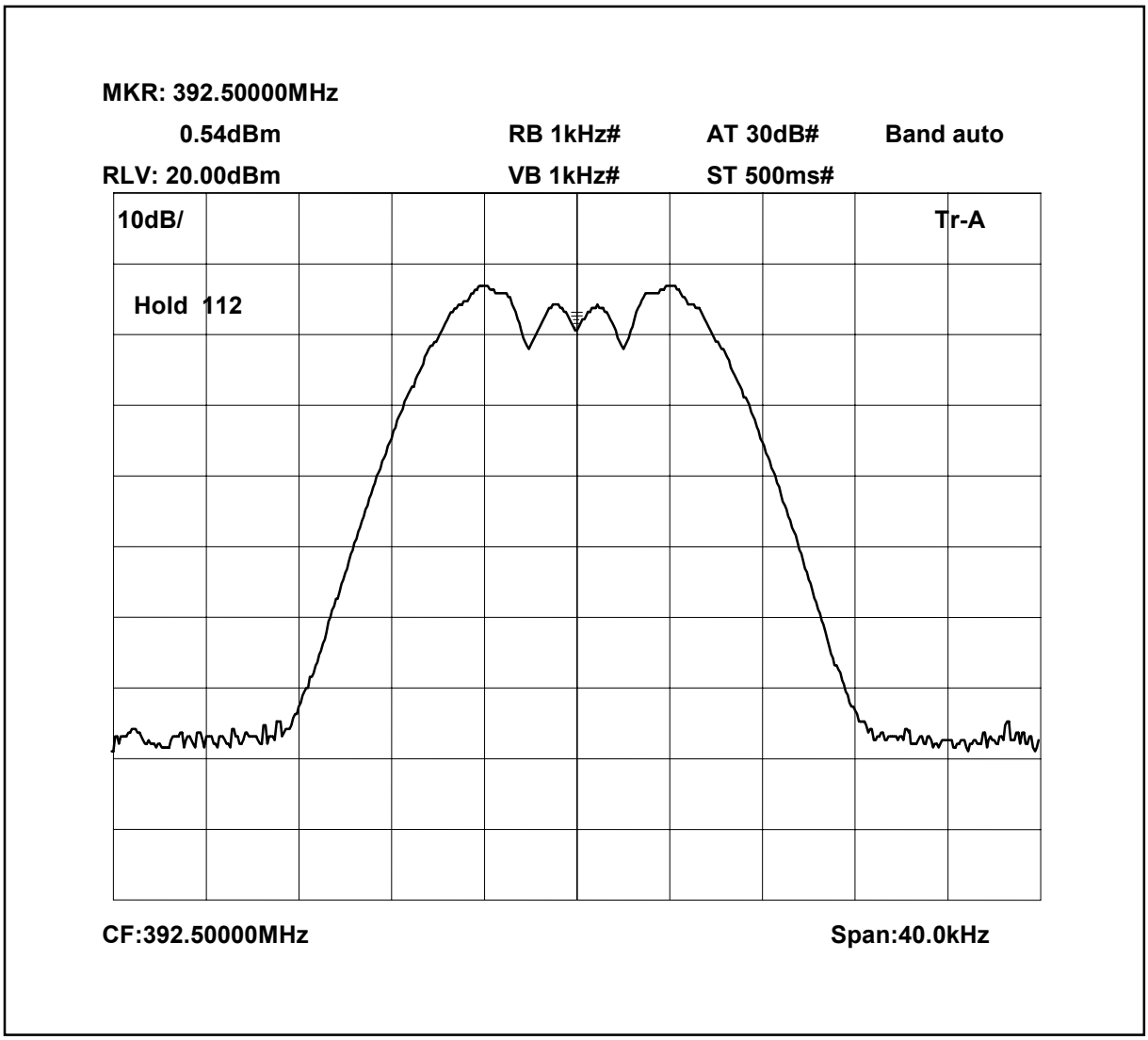


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

392.5MHz Signal Generator deviation set to 5kHz

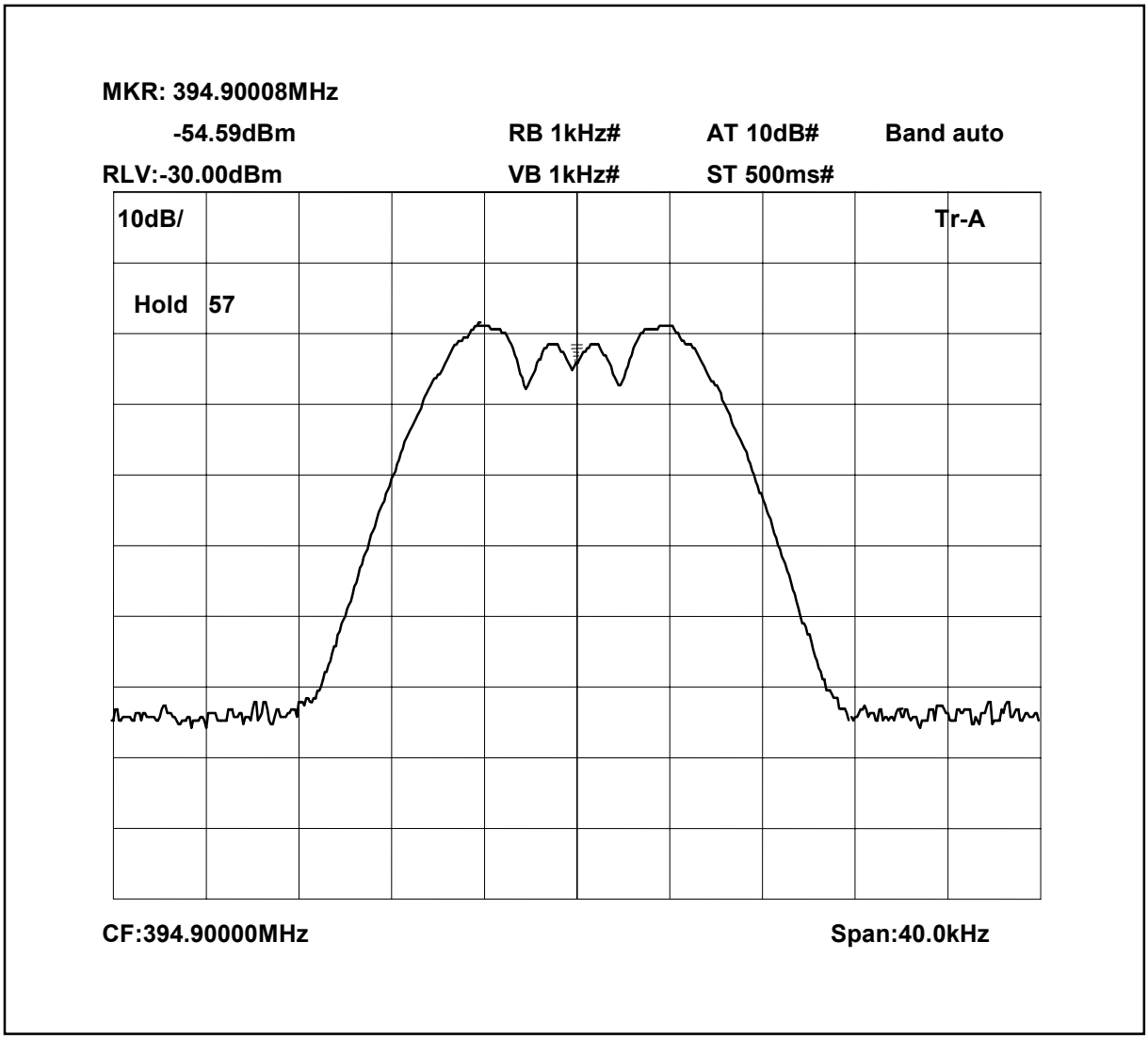


392.5MHz Signal Generator and amplifier deviation set to 5kHz

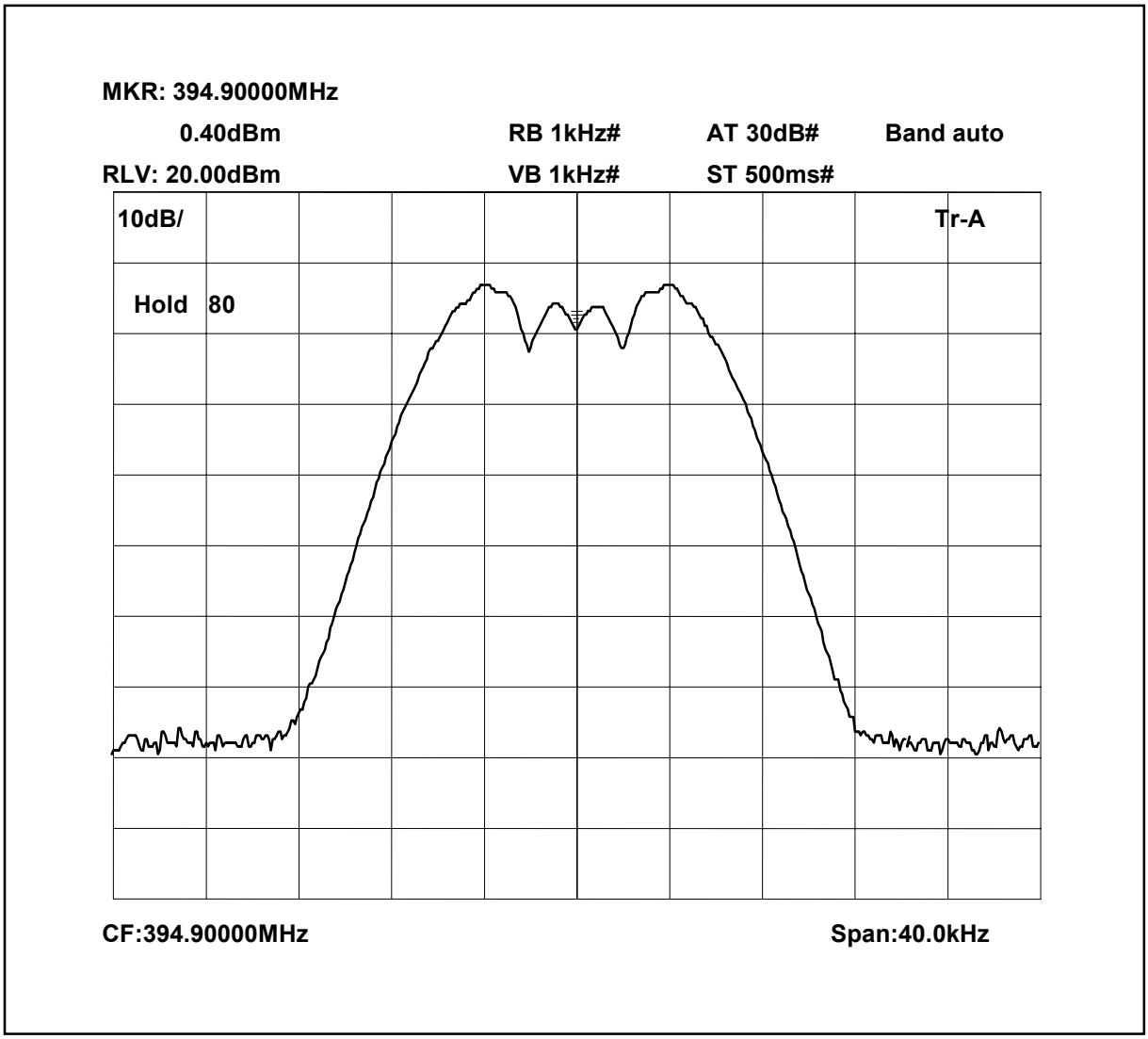


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

394.9MHz Signal Generator deviation set to 5kHz



394.9MHz Signal Generator deviation set to 5kHz



The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

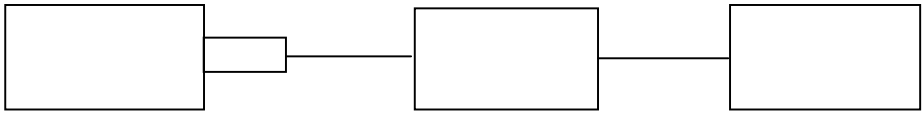
The test equipment used for the Transmitter modulated channel tests is shown overleaf:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-200	N/A	103	**X**
ATTENUATOR	BIRD	8304-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1057 dBm– DOWNLINK

Ambient temperature	=	24°C	Radio Laboratory		
Relative humidity	=	48%	Test Signal	=	F3E
Supply voltage	=	+24 Vdc			



Spectrum Analyser TRL479 | Attenuator TRL103, TRL112 Cable TRL279 | EUT | Signal Generator TRL179

The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

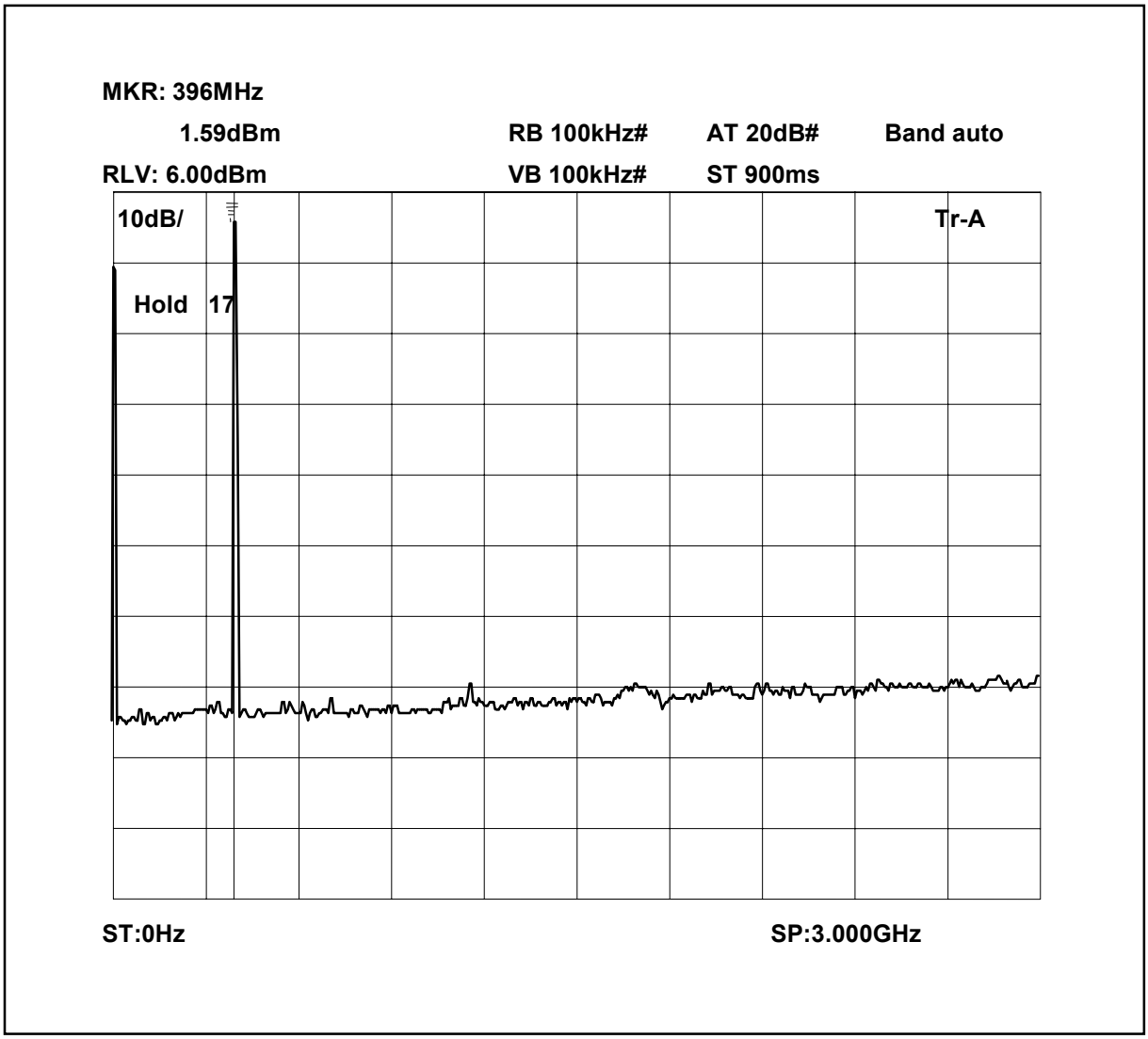
At least 43 + 10 log PdB

$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

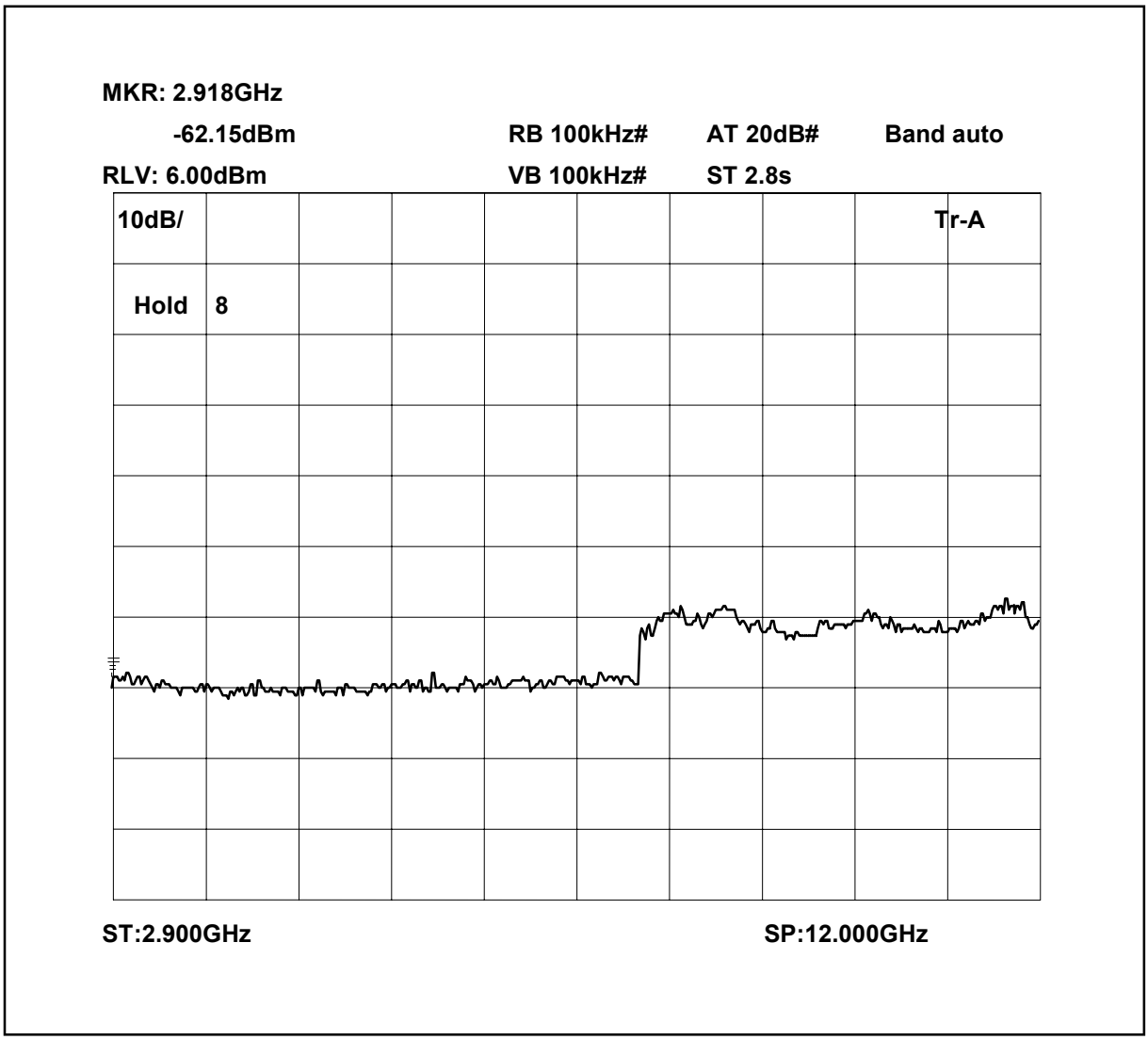
The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-200	N/A	103	**X**
ATTENUATOR	BIRD	8304-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

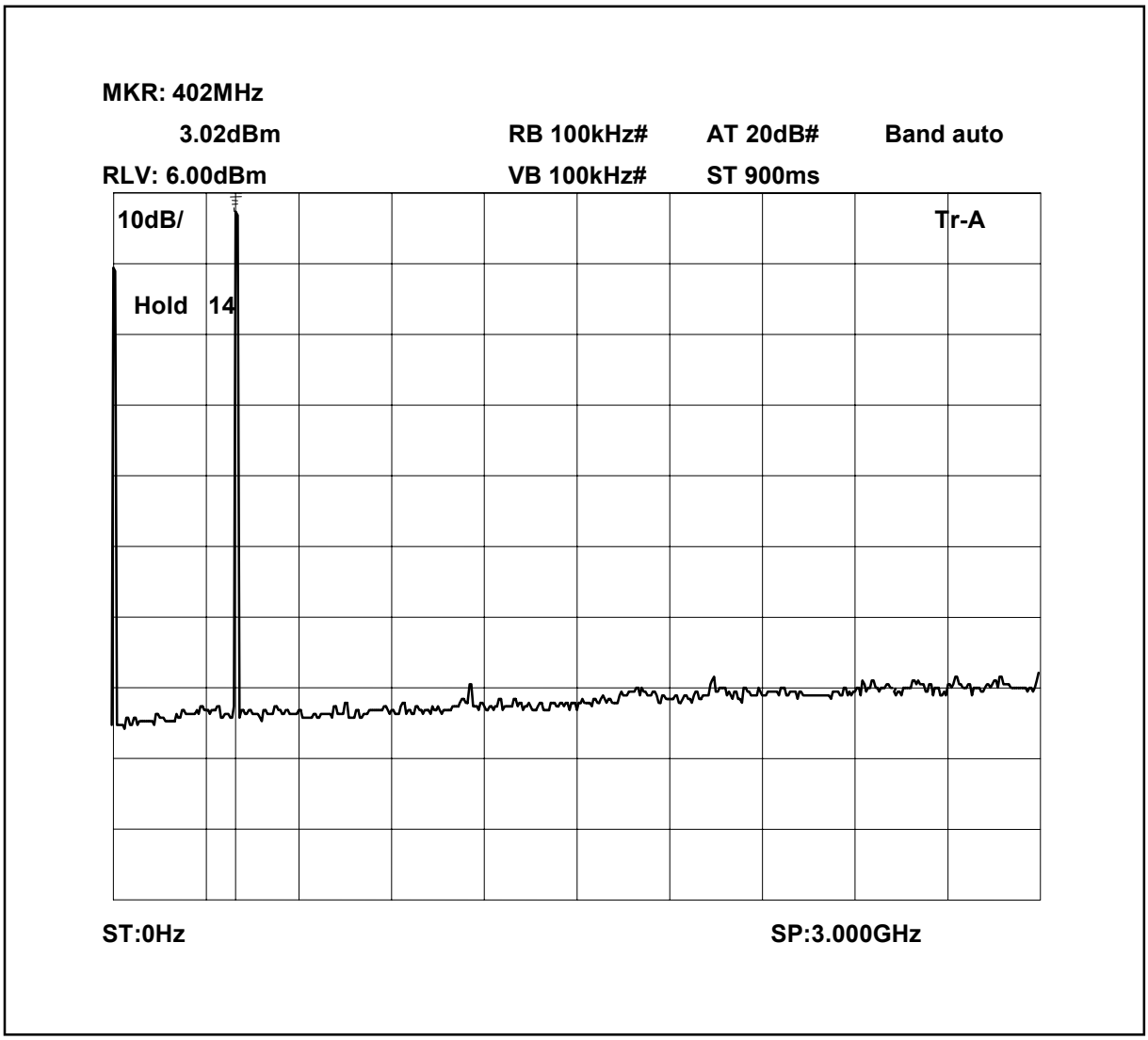
Conducted emissions 390.1MHz 0-3GHz



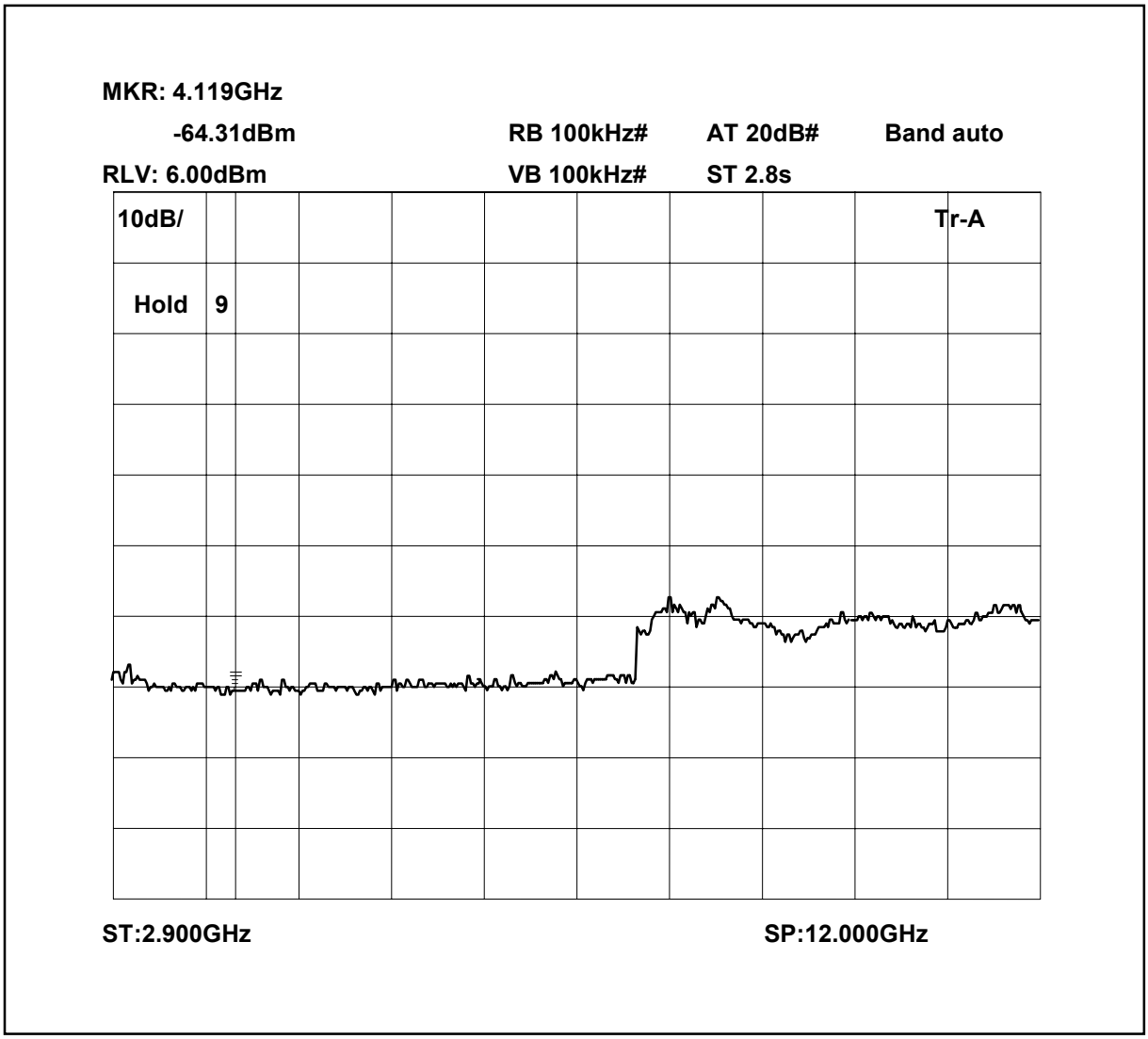
Conducted emissions 390.1 MHz 2.9-10GHz



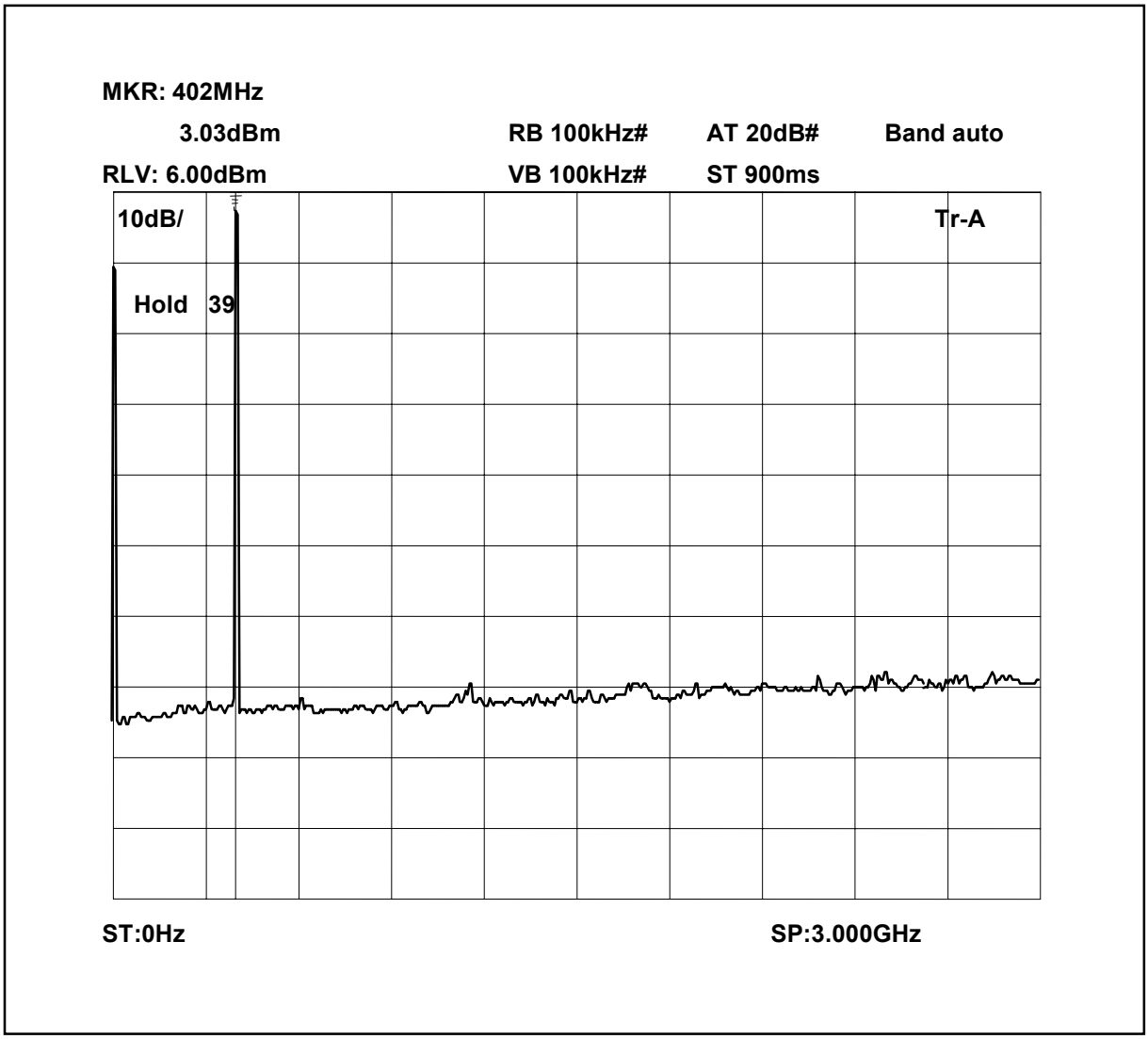
Conducted emissions 392.5 MHz 0-3GHz



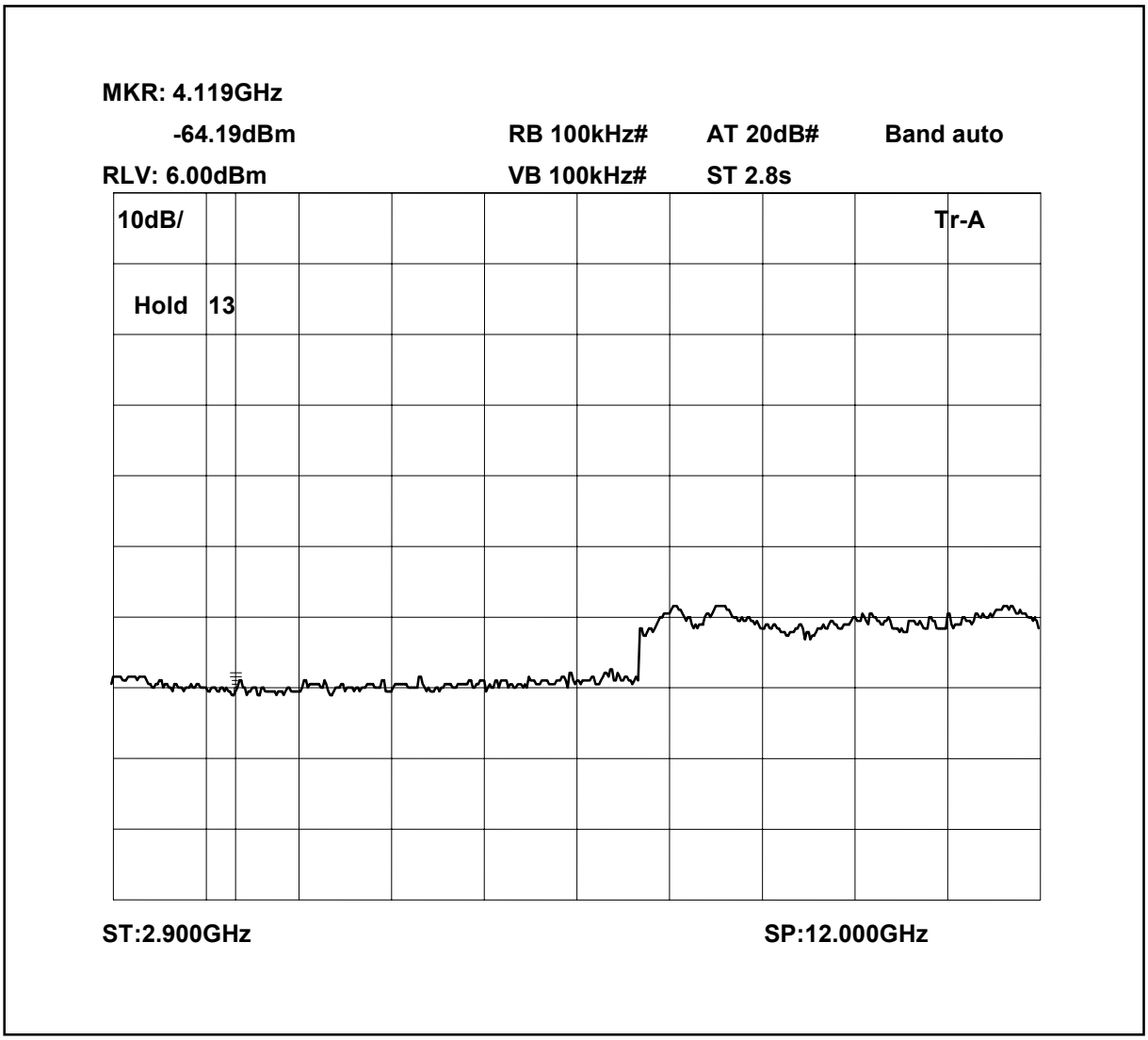
Conducted emissions 392.5MHz 2.9-10GHz



Conducted emissions 394.9MHz 0-3GHz



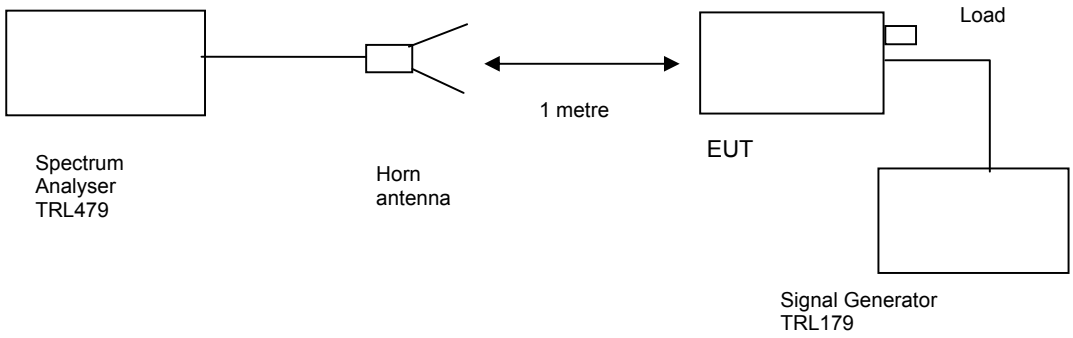
Conducted emissions 394.9MHz 2.9-10GHz



TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– DOWNLINK

Ambient temperature	=	10°C	Test Signal	=	F3E
Relative humidity	=	43%			
Conditions	=	OATS			
Supply voltage	=	+24 Vdc			
Supply Frequency	=	N/A			



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load on the output. The unit was also tested with the signal generator replaced by another 50ohm load.

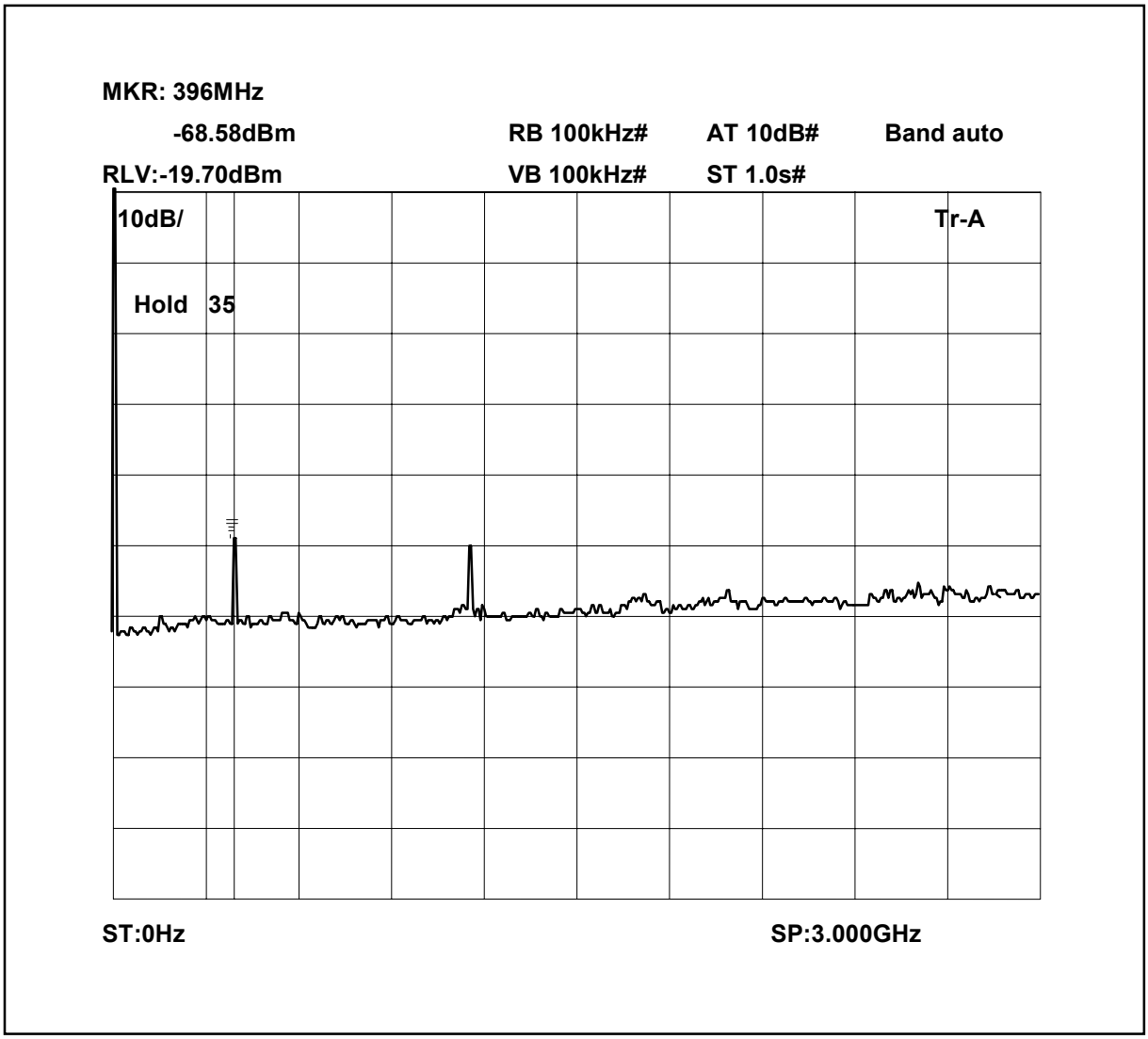
The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least 43 + 10 log PdB

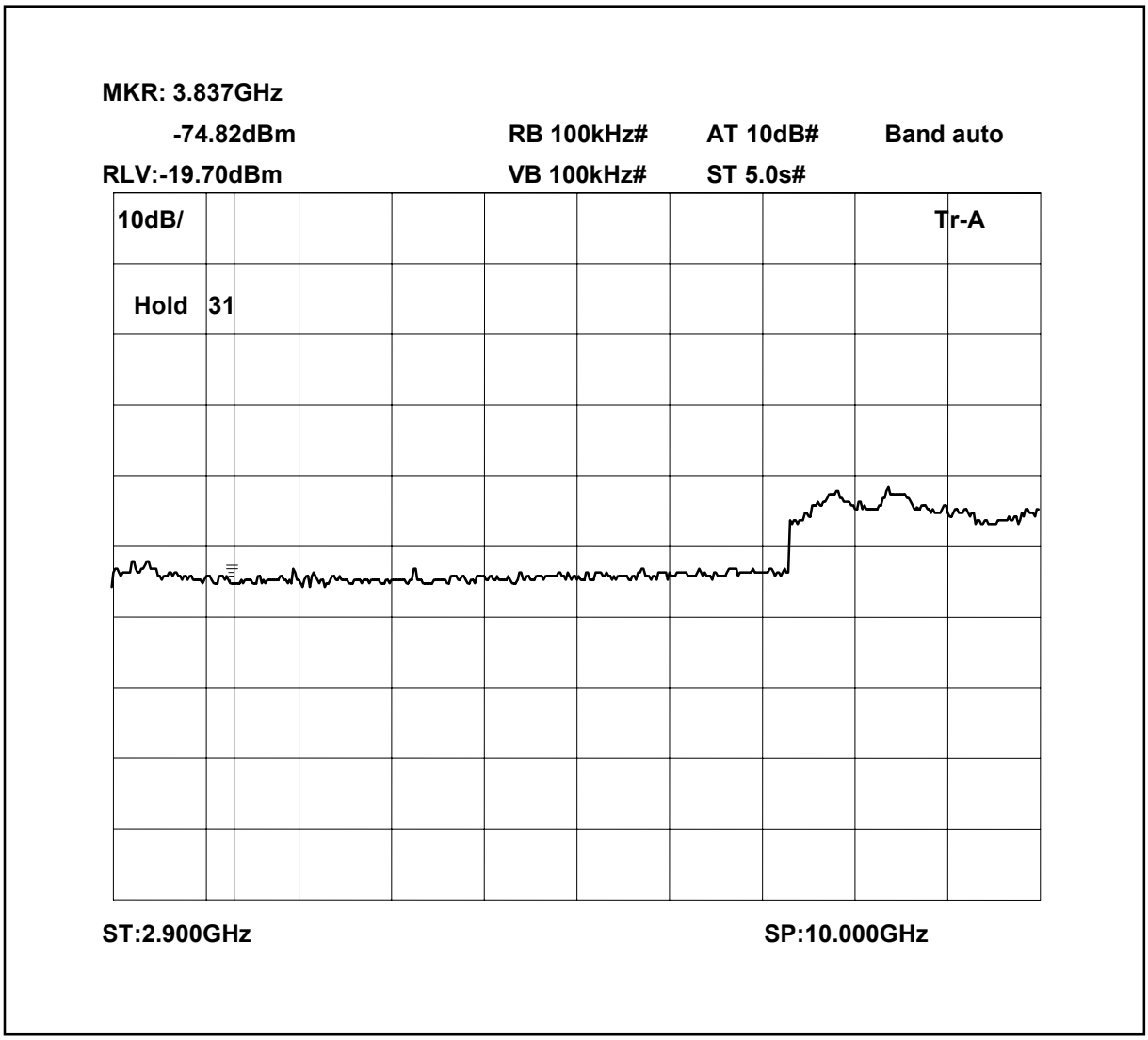
$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

Radiated emissions 390.1MHz 0-3GHz



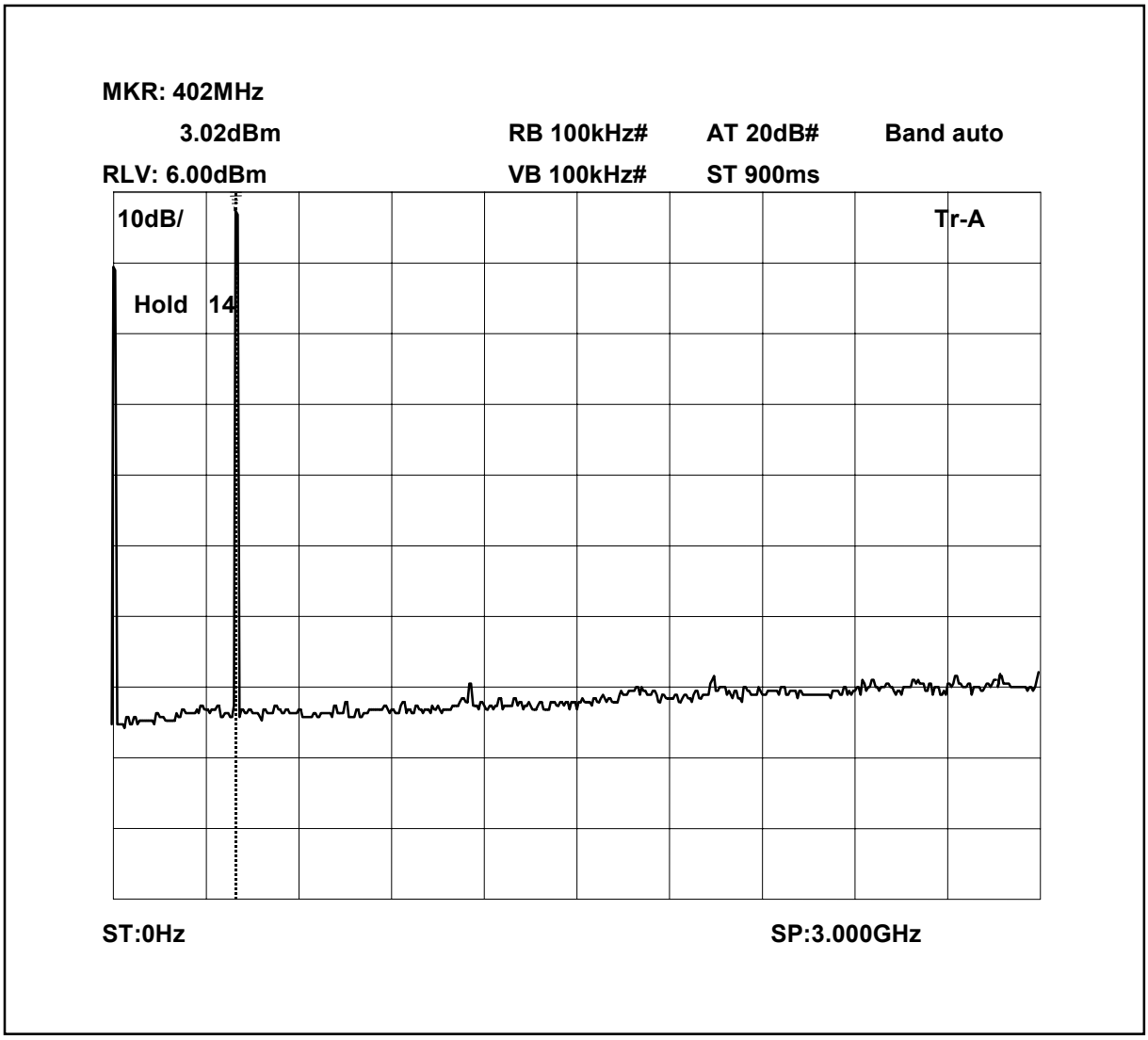
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 390.1MHz 2.9-10GHz



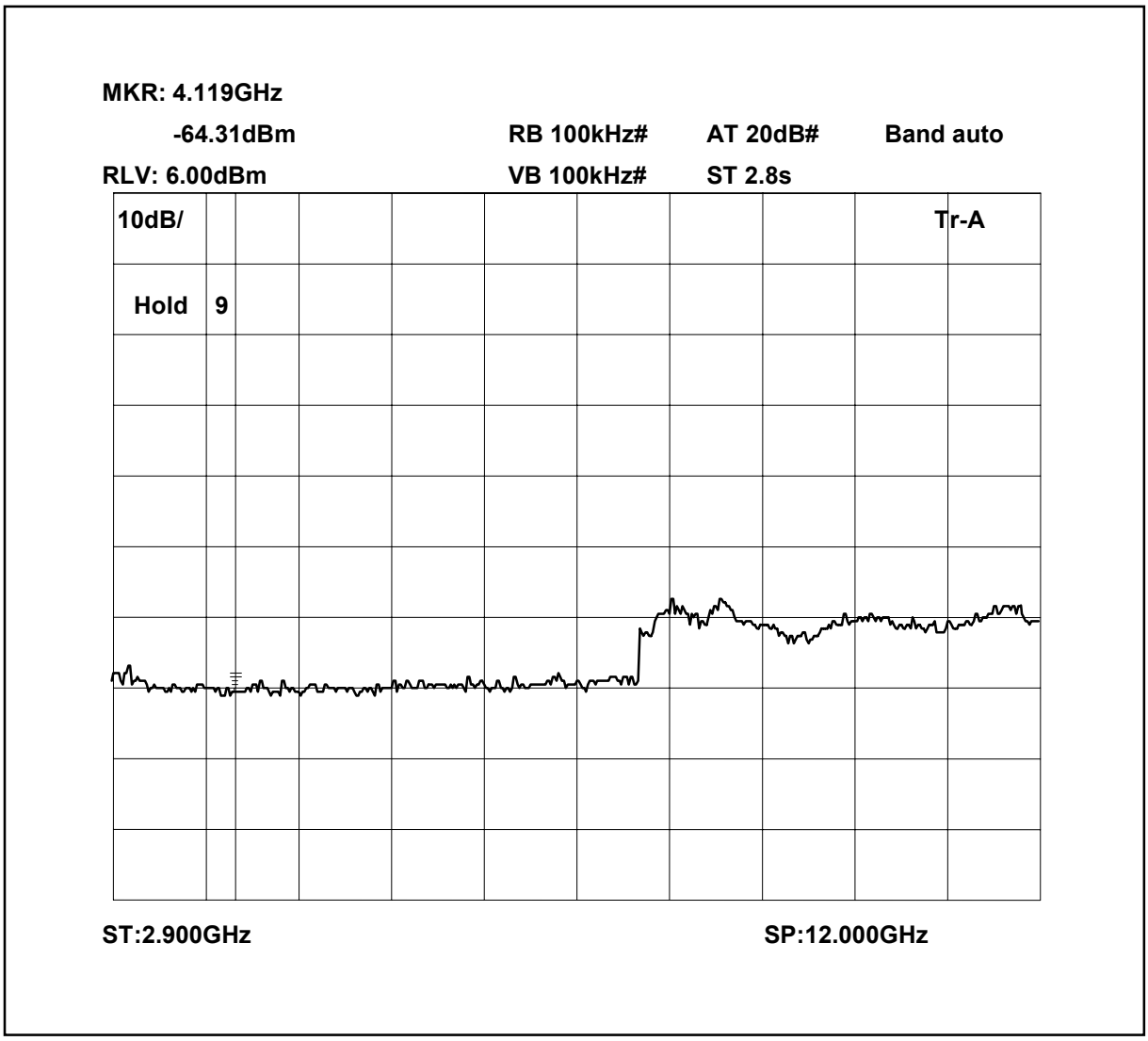
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 392.5MHz 0-3GHz



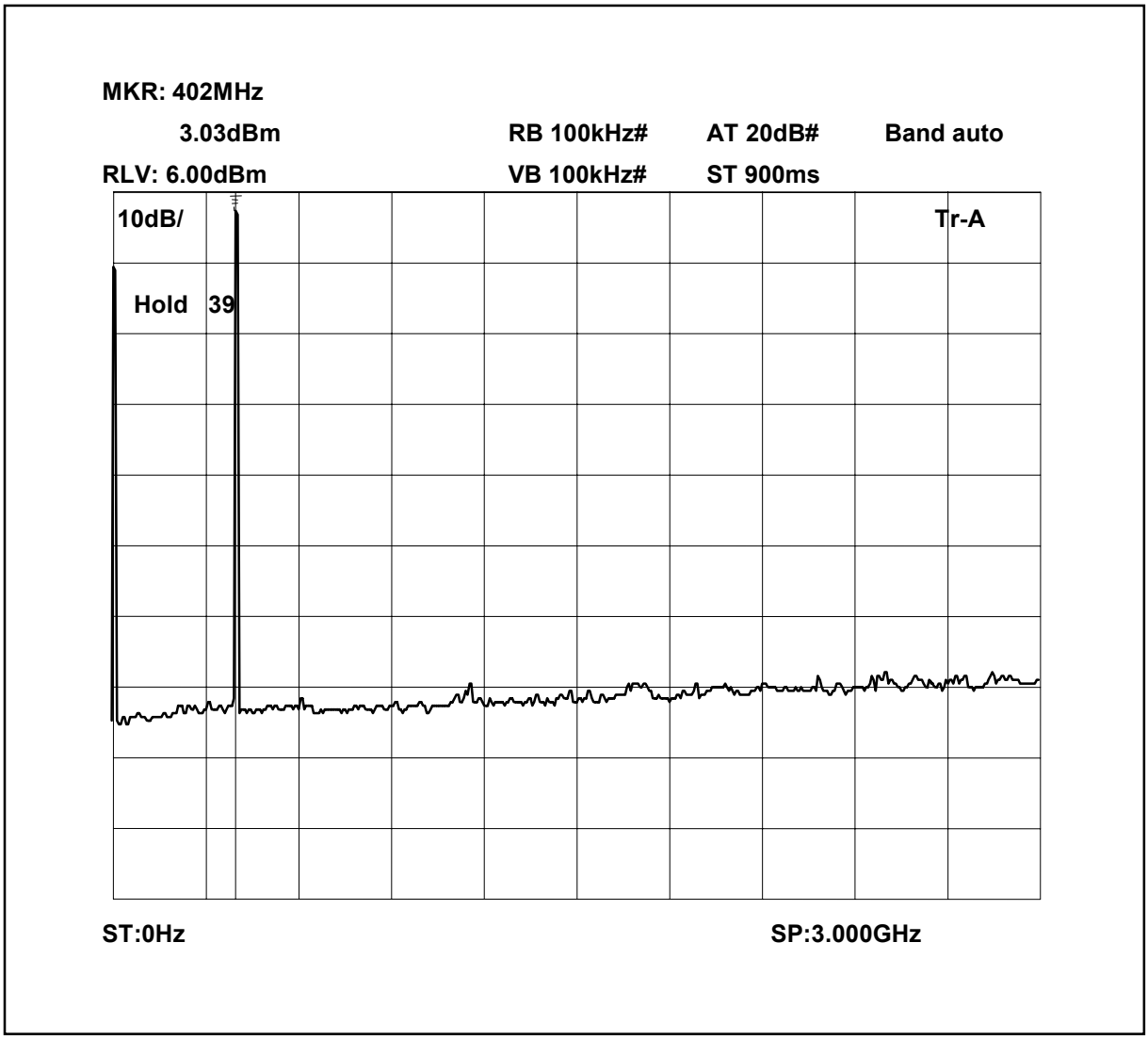
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 392.5MHz 2.9-10GHz



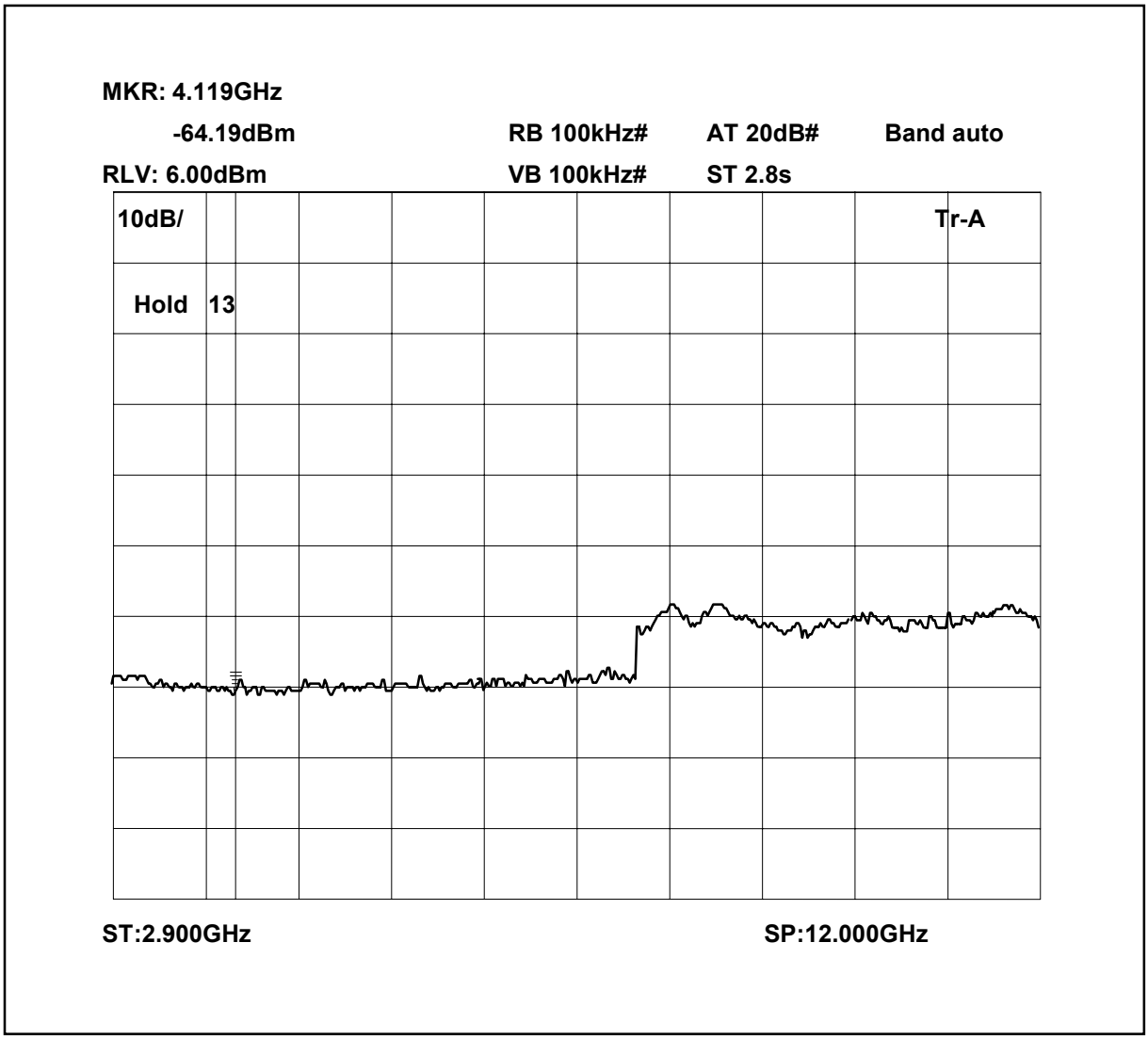
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 394.9MHz 0-3GHz



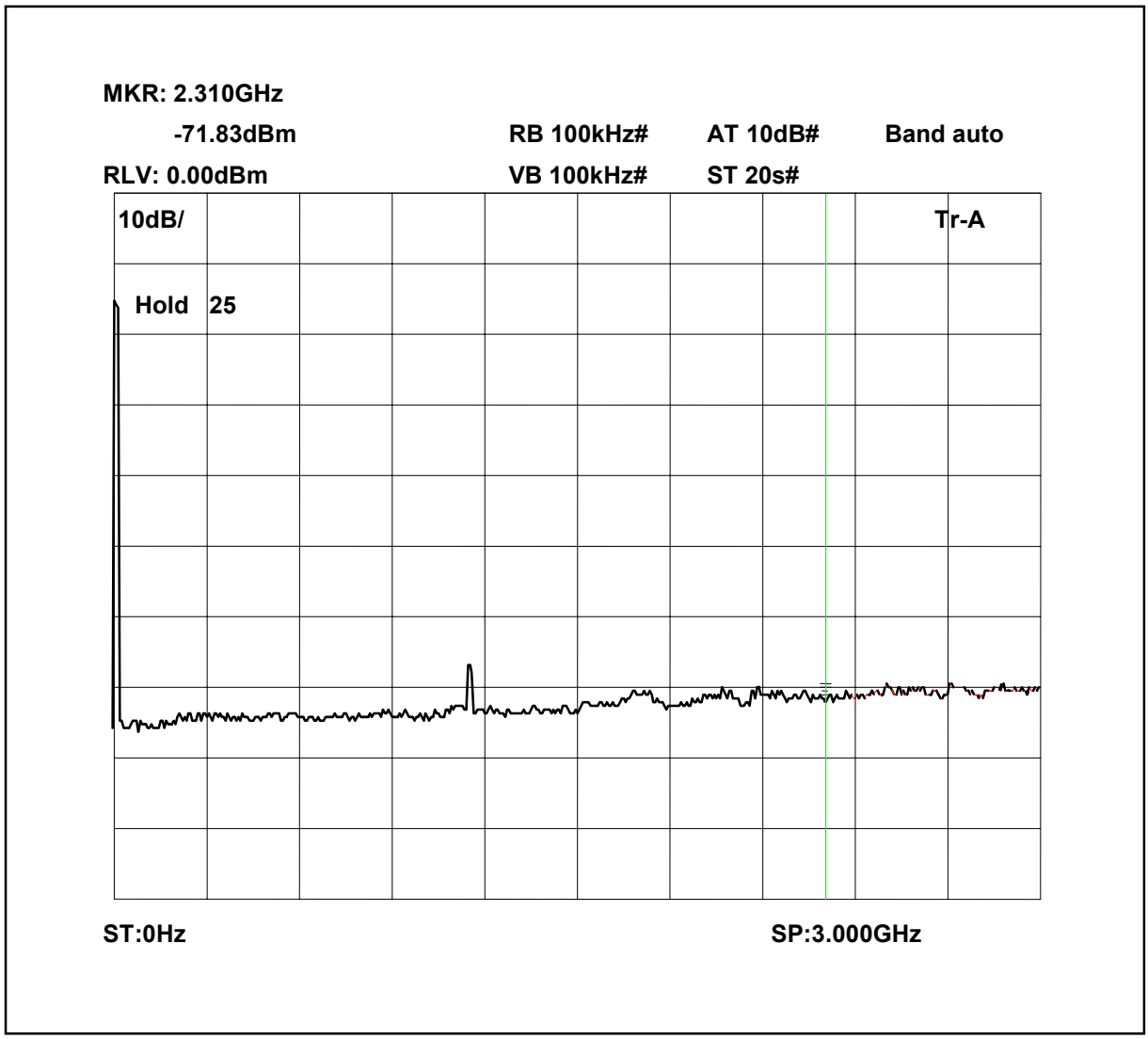
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 394.9MHz 2.9-12GHz



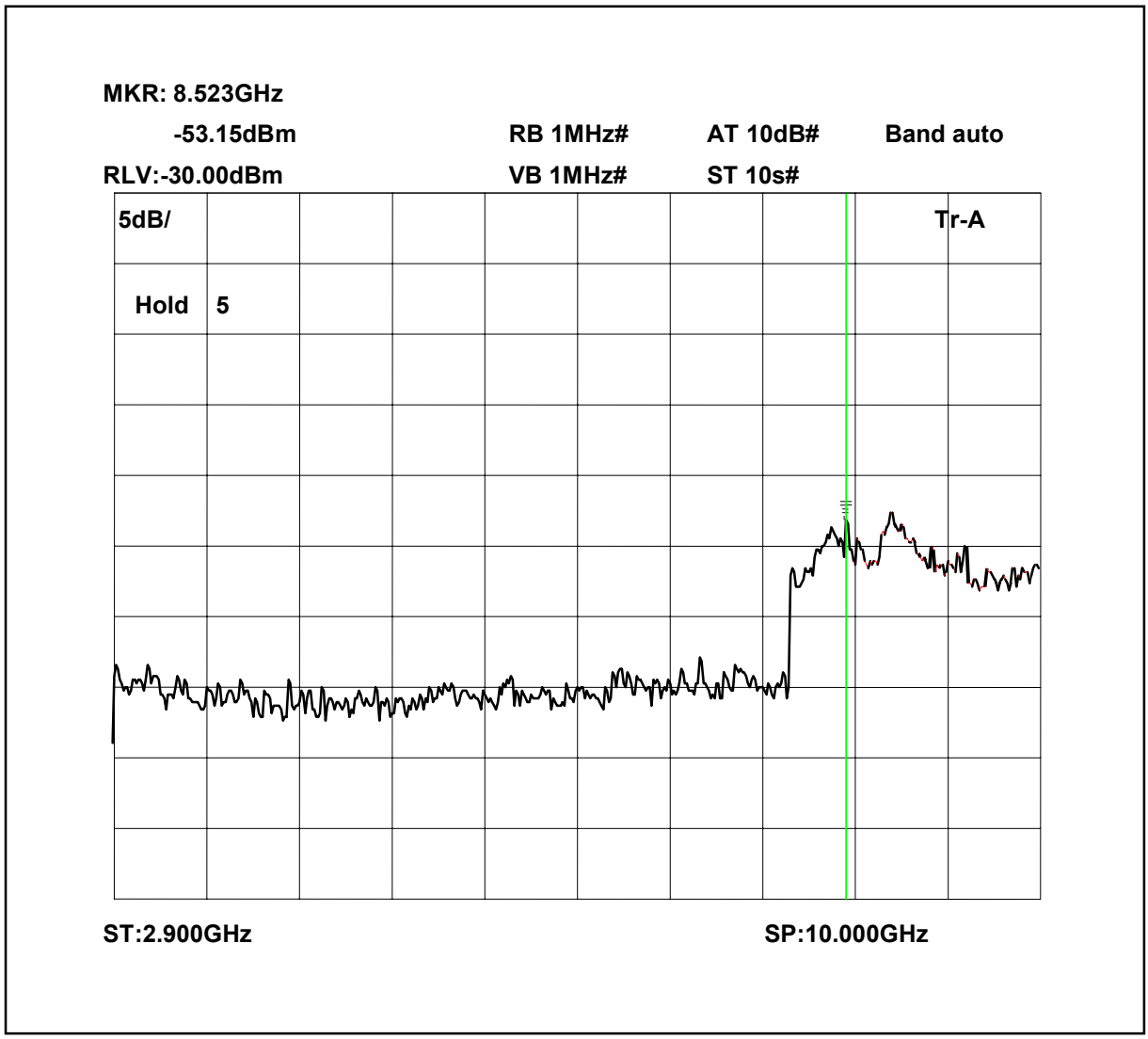
The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 0-3GHz



The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 2.9-10GHz



The above test results show that there were no emissions within 20dBs of the –13dBm limit.

The test equipment used for the Transmitter Spurious Emissions:

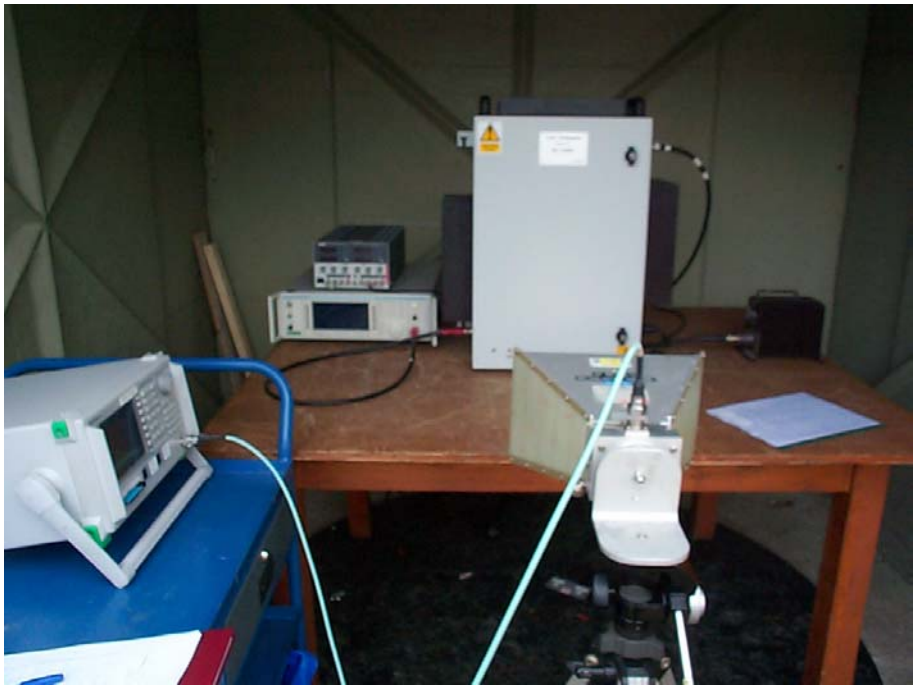
TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
HORN	EMCO	3115	9010-3581	139	**X**
ATTENUATOR	BIRD	8308-200	N/A	103	**X**
ATTENUATOR	BIRD	8308-100	N/A	112	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

ANNEX A

PHOTOGRAPHS

PHOTOGRAPH No. 1 **TEST SETUP - General**

PHOTOGRAPH No. 2 **TEST SETUP – Radiated Emissions**



ANNEX B

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

a.	TCB	-	APPLICATION	[X]
		-	FEE	[X]
b.	AGENT'S LETTER OF AUTHORISATION	-		[X]
c.	MODEL(s) vs IDENTITY	-		[ ]
d.	ALTERNATIVE TRADE NAME DECLARATION(s)	-		[ ]
e.	LABELLING	-	PHOTOGRAPHS	[ ]
		-	DECLARATION	[ ]
		-	DRAWINGS	[ ]
f.	TECHNICAL DESCRIPTION	-		[X]
g.	BLOCK DIAGRAMS	-	Tx	[X]
		-	Rx	[ ]
		-	PSU	[ ]
		-	AUX	[ ]
h.	CIRCUIT DIAGRAMS	-	Tx	[ ]
		-	Rx	[ ]
		-	PSU	[ ]
		-	AUX	[ ]
i.	COMPONENT LOCATION	-	Tx	[ ]
		-	Rx	[ ]
		-	PSU	[ ]
		-	AUX	[ ]
j.	PCB TRACK LAYOUT	-	Tx	[ ]
		-	Rx	[ ]
		-	PSU	[ ]
		-	AUX	[ ]
k.	BILL OF MATERIALS	-	Tx	[X]
		-	Rx	[ ]
		-	PSU	[ ]
		-	AUX	[ ]
l.	USER INSTALLATION / OPERATING INSTRUCTIONS	-		[X]